# 105/412 1 URBENT

# SEARCH REQUEST FORM

Access DB# 105385

PTO-1590 (8-01)

Scientific and Technical Information Center

NOC14		<del>-</del> '				
Requester's Full Name: <u>Igo</u>	r Boriss	アクレ Examiner #	#: 7924Z D	ate: 10 = 0	~ ~	
Alt Ullit: 5029 Phone	e Number 30 S.	4649 Serial	Number: 29/542	854		
Mail Box and Bldg/Room Locat	ion: <u>CPK5-</u> 7	Results Format P	referred (circle): PA	APER DISK E-M	1A)	
If more than one search is sub	omitted, please	prioritize searches	in order of need			
lf more than one search is submitted, please prioritize searches in order of  need. ***********************************						
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched, include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if the crown. Please attach a copy of the cover sheet, pertinent claims, and abstract.						
Title of Invention:	۶	· · · · · · · · · · · · · · · · · · ·		; 	٠. ٠.٠	
Inventors (please provide full names)	: See	offar head	Continues to the state of the s	· (#		
<i>(</i> ************************************		ar vor navi		· January of the state of the s		
Paulinet Deineite Dille Det	outout.	202	<del></del>	1.00		
Earliest Priority Filing Date:		000				
*For Sequence Searches Only* Please inc appropriate serial number.	clude all pertinent inf	ormation (parent, child, div	visional, or issued patent	numbers) along with th	ie	
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TAFF USE ONLY	Type of Search	Vend	dors and cost where a	pplicable		
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archer Phone #:	AA Sequence (#)	1				
archer Location:	Structure (#)	Questel/Orbit			ę.	
ite Searcher Picked Up:	Bibliographic	Dr.Link				
ite Completed:	Litigation	Lexis/Nexis				
archer Prep & Review Time:	Fulltext	11 to 12	18			
erical Prep Time:	Patent Family	WWW/Internet _		,		
line Time.	0.1					



# STIC Search Report

# STIC Database Tracking Number: 105365

TO: Igor Borissov Location: PK5-7C22

**Art Unit: 3629** 

Monday, October 06, 2003

Case Serial Number: 09542854

From: Elizabeth Deal

Location: EIC 3600

PK5-Suite 804

Phone: 305-5783

elizabeth.deal@uspto.gov

## Search Notes

Dear Igor,

Attached are the results of the above-referenced search. If you have any questions or comments, please feel free to contact me.

Libby



```
File 347: JAPIO Oct 1976-2003/May(Updated 030902)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD, UM &UP=200363
         (c) 2003 Thomson Derwent
     35:Dissertation Abs Online 1861-2003/Sep
         (c) 2003 ProQuest Info&Learning
File 583: Gale Group Globalbase (TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
      65:Inside Conferences 1993-2003/Oct W1
         (c) 2003 BLDSC all rts. reserv.
       2:INSPEC 1969-2003/Sep W4
File
         (c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
File 474: New York Times Abs 1969-2003/Oct 03
         (c) 2003 The New York Times
File 475: Wall Street Journal Abs 1973-2003/Oct 03
         (c) 2003 The New York Times
      99: Wilson Appl. Sci & Tech Abs 1983-2003/Aug
         (c) 2003 The HW Wilson Co.
      95:TEME-Technology & Management 1989-2003/Sep W3
         (c) 2003 FIZ TECHNIK
                Description
Set
        Items
                POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES
      6960769
S1.
              OR ENERGY OR CURRENT
        46960
                S1(2N)(NETWORK? ? OR GRID)
S2
                FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC-
S3
             K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR (INSUFFICIEN? OR INAD-
             EQUATE OR SCARCE OR DEFICIENT OR ("NOT"() ENOUGH) OR SHORT)()(-
             SUPPLY OR CAPACITY)
                NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARR-
S4
     12055866
             ANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR HA-
             NDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?
                (REAL OR SAME) () TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR
S5
              IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)D-
             ATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU-
             RRENT? OR BEHIND (2W) SCENE? OR ON () FLY
                S2 AND S3 AND (S4(5N)S5)
S6
           12
S7
            1
                S6 FROM 347,350
S8
                S6 NOT S7
           11
S9
            9
                RD (unique items)
S10
            5
                S9 NOT PY>2000
                (S1(5N)S4) AND (S2(5N)S3) AND S5
S11
            7
S12
            5
                S11 NOT S6
                (S1 AND S3 AND S4) FROM 347,350
S13
          401
           16 S13 AND (IC=(H02J-000/00 OR H02J-003/00 OR G06F-017/60) OR
S14
             MC=(T01-J05A OR X12-H01B OR X12-H03A))
```

```
7/3,K/1
           (Item 1 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
014096703
            **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942;
  2002-434191; 2003-076172
XRPX Acc No: N01-432691
  System for managing AC power networks based on flow - gate market
  transactions by contracting power transfer on each flow gate of the
 gate collection
Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G; FU C; SAMUELSON R; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:
                                          Kind
Patent No
             Kind
                  Date
                            Applicat No
                                                 Date
                                                          Week
WO 200141279 A1 20010607 WO 2000US22487 A
                                               20000816 200165 B
                  20010612 AU 200067781
                                               20000816 200165
AU 200067781
            Α
                                           Α
                  20020717 WO 2000US22487 A
                                               20000816 200260
NO 200202555 A
                            NO 20022555
                                           Α
                                               20020529
EP 1234368 A1 20020828 EP 2000955602
                                               20000816 200264
                                           Α
                            WO 2000US22487 A
                                               20000816
Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213
  P 19991130; US 99163213 P 19991130
Patent Details:
Patent No Kind Lan Pg
                       Main IPC
                                   Filing Notes
WO 200141279 A1 E 99 H02J-003/00
  Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
   CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
   SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
AU 200067781 A
                     H02J-003/00 Based on patent WO 200141279
NO 200202555 A
                      H02J-000/00
EP 1234368
          A1 E
                      H02J-003/00
                                  Based on patent WO 200141279
  Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI
```

System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow gate of the gate collection

#### Abstract (Basic):

٠.

- ... an operation (1062), performing contracting of the associated AC power transfer on each of the **flow gates** of the **flow gate** collection, to take place over at least a first time interval, while the execution (1064...
- .. INDEPENDENT CLAIMS are included for a method for contracting AC power transfer on an AC **power network** and for a computer system supporting program...
- ...Controlling AC electrical power transfer in a frequency controlled AC power network .
- ... Trading transfer rights in a timely , reliable and efficient manner

10/3,K/1 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01657138 ORDER NO: AAD98-26898

MARGIN AND SENSITIVITY METHODS FOR SECURITY ANALYSIS OF ELECTRIC POWER SYSTEMS (POWER BLACKOUTS )

Author: GREENE, SCOTT L.

Degree: PH.D.

Year: 1998

Corporate Source/Institution: THE UNIVERSITY OF WISCONSIN - MADISON (

0262)

Source: VOLUME 59/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3613. 277 PAGES

# MARGIN AND SENSITIVITY METHODS FOR SECURITY ANALYSIS OF ELECTRIC POWER SYSTEMS (POWER BLACKOUTS )

Reliable operation of large scale electric **power networks** requires that system voltages and currents stay within design limits. Operation beyond those limits can lead to equipment failures and **blackouts**. Security margins measure the amount by which system loads or power transfers can change before...

...with respect to assumptions, system parameters, operating policy, and transactions. Security margins to voltage collapse **blackouts**, oscillatory instability, generator limits, voltage constraints and line overloads are considered. The usefulness of computing...

...sparse matrix techniques.

Margin sensitivity methods are shown to work effectively for avoiding voltage collapse **blackouts** caused by either saddle node bifurcation of equilibria or immediate instability due to generator reactive...

...margin computation and provides sensitivity information at minimal additional cost. Estimates of the effect of **simultaneous transfers** on the **transfer** margins agree well with the exact computations for a network model derived from a portion...

10/3,K/2 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01486885 ORDER NO: AADAA-I9616713

DISTRIBUTED MANAGEMENT BY DELEGATION (NETWORK DELAYS, ELASTIC PROCESSES)

Author: GOLDSZMIDT, GERMAN S.

Degree: PH.D. Year: 1996

Corporate Source/Institution: COLUMBIA UNIVERSITY (0054)

Source: VOLUME 57/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1200. 226 PAGES

...remote control. The elastic processing architecture extends dynamic linking of delegated agents across remote computers.

Current network management systems follow a platform-centric, static soft-ware paradigm that allocates most responsibilities to....

...unreliable systems. It forces management applications to micro-manage devices, and results in failure-prone **management bottlenecks**, and limitations for **real time** responsiveness. The dissertation presents a more flexible management paradigm, namely Management by Delegation (MbD). MbD...

10/3,K/3 (Item 1 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6841312 INSPEC Abstract Number: B2001-03-6210L-166, C2001-03-5620W-072

Title: Implicit admission control

Author(s): Mortier, R.; Pratt, I.; Clark, C.; Crosby, S. Author Affiliation: Comput. Lab., Cambridge Univ., UK

Journal: IEEE Journal on Selected Areas in Communications vol.18, no.12 p.2629-39

Publisher: IEEE,

Publication Date: Dec. 2000 Country of Publication: USA

CODEN: ISACEM ISSN: 0733-8716

SICI: 0733-8716(200012)18:12L.2629:IAC;1-I Material Identity Number: D958-2001-002

U.S. Copyright Clearance Center Code: 0733-8716/2000/\$10.00

Language: English

Subfile: B C

Copyright 2001, IEE

... Abstract: level concepts, such as connections, flows, and sessions when controlling network congestion. This becomes of increasing importance as more real - time traffic is carried on the Internet, since this traffic is less elastic in nature than traditional Web traffic. We argue that, in order to achieve better utility of the network as a whole, higher level congestion controls are required. By way of example, we present...

...results are used to show that it can drastically improve the performance of TCP over **bottleneck** links. We go on to describe an implementation of our algorithm for a router running the Linux 2.2.9 operating system. We show that by giving routers at **bottlenecks** the ability to intelligently deny admission to TCP connections, the goodput of existing connections can

... Identifiers: bottleneck links

10/3,K/4 (Item 2 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6298421 INSPEC Abstract Number: C1999-08-5440-018

Title: Performance tuning software DSM applications using visualisation

Author(s): Brorsson, M.; Kral, M.

Author Affiliation: Dept. of Inf. Technol., Lund Univ., Sweden Journal: Journal of Supercomputing vol.13, no.3 p.249-65

Publisher: Kluwer Academic Publishers,

Publication Date: May 1999 .Country of Publication: Netherlands

CODEN: JOSUED ISSN: 0920-8542

SICI: 0920-8542(199905)13:3L.249:PTSA;1-1

Material Identity Number: L599-1999-003

U.S. Copyright Clearance Center Code: 0920-8542/99/\$9.50

Language: English

Subfile: C

Copyright 1999, IEE

Abstract: Small organisations can now have access to high raw processing power using networks of workstations ( NOW ) as parallel computing platforms. Software Distributed Shared Memory (Software DSM) packages have been developed to facilitate the programming of such systems...

... a tool to visualise the execution of a program in a way that highlights performance **bottlenecks**. The tool associates identified **bottlenecks** with the corresponding source code lines in order to determine what piece of code is...

... Identifiers: performance bottlenecks;

10/3, K/5(Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

INSPEC Abstract Number: C9804-6110P-028

Title: Visualisation for performance tuning of DVSM applications

Author(s): Brorsson, M.; Kral, M.

Author Affiliation: Dept. of Inf. Technol., Lund Univ., Sweden

Conference Title: Proceedings of the Thirty-First Hawaii International Conference on System Sciences (Cat. No.98TB100216) Part vol.7 532-41 vol.7

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1998 Country of Publication: USA 7 vol.

(xiv+689+ix+346+xi+470+xiv+581+xi+481+xiv+753+xvi+849) pp.

ISBN: 0 8186 8255 8 Material Identity Number: XX98-00245 U.S. Copyright Clearance Center Code: 1060-3425/98/\$10.00

Conference Title: Proceedings of the Thirty-First Hawaii International Conference on System Sciences

Conference Sponsor: Univ. Hawaii

Conference Date: 6-9 Jan. 1998 Conference Location: Kohala Coast, HI, USA

Language: English

Subfile: C

Copyright 1998, IEE

Abstract: Small organisations can now have access to high raw processing power using networks of workstations ( NOW ) as parallel computing platforms. Distributed Virtual Shared Memory (DVSM) packages have been developed to facilitate the programming of such systems...

... a tool to visualise the execution of a program in a way that highlights performance bottlenecks . The tool associates identified bottlenecks with the corresponding source code lines in order to determine what piece of code is...

... Identifiers: bottlenecks;

```
12/3, K/1
              (Item 1 from file: 2)
DIALOG(R) File 2: INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.
           INSPEC Abstract Number: B2000-10-8110C-079
  Title: Enhanced power system operation by application of adjustable speed
hydro machines
  Author(s): Sporild, R.; Gjerde, J.O.; Gjengedal, T.
  Author Affiliation: ABB Corp. Res., Billingstad, Sweden
  Conference Title: DRPT2000. International Conference on Electric Utility
Deregulation and Restructuring and Power Technologies. Proceedings (Cat.
No.00EX382) p.372-7
  Editor(s): Lai Loi Lei
  Publisher: IEEE, Piscataway, NJ, USA
  Publication Date: 2000 Country of Publication: USA
                                                                  xxij4688 pp.
  ISBN: 0 7803 5902 X
                              Material Identity Number: XX-1999-03647
  U.S. Copyright Clearance Center Code: 0 7803 5902 X/2000/$10.00
  Conference Title: Proceedings of International Conference on Electric
Utility Deregulation and Restructuring, and Power Tecknologies 2000
Conference Sponsor: Nat. Grid Company UK; Electricite de France; Mitsubishi Electr. Corp. Japan; London Electr.; ABB; A.M. Best Int
  Conference Date: 4-7 April 2000 Conference Location: London, UK
  Language: English ~
  Subfile: B
  Copyright 2000, IEE
...Abstract: the adjustable speed hydro (ASH) machine concept as an alternative for obtaining better utilisation of power networks. Transmission lines appearing as bottlenecks with respect to power
 demand may increase their transfer capacity as ASH machines are
introduced in the network. The paper has given a quantification...
  ...Identifiers: dynamic stability
                (Item 2 from file: 2)
 12/3, K/2
DIALOG(R)File
                 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.
           INSPEC Abstract Number: B2000-03-8240-017
 Title: Assessing the benefits of adjustable speed hydro machines
  Author(s): Gjengedal, T.; Gjerde, J.O.; Sporild, R. Author Affiliation: Statkraft SF, Norway
  Conference Title: PowerTech Budapest 99. Abstract Records. (Cat.
No.99EX376)
                 p.105
  Publisher: IEEE, Piscataway, NJ, USA
  Publication Date: 1999 Country of Publication: USA xviii+300 ISBN: 0 7803 5836 8 Material Identity Number: XX-1999-00599
                                                                  xviii+308 pp.
  U.S. Copyright Clearance Center Code: 0 7803 5836 8/99/$10.00
  Conference Title: Proceedings of 1999 PowerTech Conference
  Conference Date: 29 Aug.-2 Sept. 1999 Conference Location: Budapest,
Hungary
  Language: English
  Subfile: B
  Copyright 2000, IEE
...Abstract: the adjustable speed hydro (ASH) machine concept as an alternative for obtaining better utilisation of power networks. Transmission lines appearing as bottlenecks with respect to power
```

increase their transfer capacity as ASH machines are demand may introduced in the network. This is achieved by a quick... ...Descriptors: synchronous generators

12/3,K/3 (Item 1 from file: 95) DIALOG(R) File 95: TEME-Technology & Management (c) 2003 FIZ TECHNIK. All rts. reserv.

01776315 20030800086

Mittelspannungs-Gleichstrom-Uebertragungsanlage Siplink im Versorgungsnetz. Leistungselektronik in der regionalen Energieversorgung

(Medium voltage direct current coupler in distribution networks)

Huebel, I

Siemens, Erlangen, D

ew - Elektrizitaetswirtschaft, v102, n16, pp36-38, 2003

Document type: journal article Language: German

Record type: Abstract

ISSN: 1619-5795

(Medium voltage direct current coupler in distribution networks)
DESCRIPTORS: DC TRANSMISSION; MEDIUM VOLTAGE; ELECTRICS; UTILITY NETWORKS;
INTERACTIVE OPERATION; ELECTRIC POWER UTILITY COMPANIES; INNOVATIONS;
ELECTRIC MAINS; LOAD FLOW; CONTROL; BOTTLE NECK; ACTIVE POWER;
NETWORK STUCTURE...

12/3,K/4 (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2003 FIZ TECHNIK. All rts. reserv.

01693385 20021105443

Sicherheit der Uebertragungsnetze

(Security of transmission systems)

Brauner, G; Haimbl, W; Christiner, G; Popelka, H

TU Wien, A; Verbund-Austrian Power Grid, Wien, A

e & i. Elektrotechnik und Informationstechnik, v119, n10, pp340-346, 2002

Document type: journal article Language: German

Record type: Abstract

ISSN: 0932-383X

DESCRIPTORS: ENERGY TRANSFER OF ELECTRICITY; ELECTRIC MAINS; POWER SYSTEM NETWORK ADMINISTRATION; BOTTLE NECK; EUROPE; HIGH VOLTAGE NETWORKS; CAPACITY UTILIZATION; LOAD FLOW; MARKET; NETWORK LOADS; INTERACTIVE OPERATION; MAINS FREQUENCY; POWER SYSTEM SIMULATION; ELECTRICAL POWER SYSTEMS STABILITY; POWER SYSTEM DISTURBANCE; AUSTRIA; CONGESTION...

12/3,K/5 (Item 3 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01693383 20021105445

Wie sicher sind Uebertragungsnetze

Haimbl, W; Popelka, H

Verbund-Austrian Power Grid, Wien, A

e & i. Elektrotechnik und Informationstechnik, v119, n10, pp355-356, 2002

Document type: journal article Language: German

Record type: Abstract

ISSN: 0932-383X

DESCRIPTORS: ENERGY TRANSFER OF ELECTRICITY; ELECTRIC MAINS; BOTTLE NECK; HIGH VOLTAGE NETWORKS; POWER PLANTS; CLIENTS; LOAD FLOW; INTERACTIVE OPERATION; ELECTRICAL POWER SYSTEMS STABILITY; POWER SYSTEM DISTURBANCE; AUSTRIA; QUALITY; SAFETY; CONFERENCE PROCEEDINGS; COMPETITION

14/3,K/1 (Item 1 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

07361605 \*\*Image available\*\*

UTILITY SUPPLY SYSTEM

PUB. NO.: 2002-230102 [JP 2002230102 A]

PUBLISHED: August 16, 2002 (20020816)

INVENTOR(s): NARANO JUNZO

MIURA SATORU

KAWAHARA HIDEAKI

APPLICANT(s): OSAKA GAS CO LTD

APPL. NO.: 2001-028149 [JP 20011028149] FILED: February 05, 2001 (20010205)

UTILITY SUPPLY SYSTEM

INTL CLASS: G06F-017/60; H02J-003/00; C10L-003/06; F17D-001/02

#### ABSTRACT

PROBLEM TO BE SOLVED: To economically evade generation of a **short supply** state and an excess supply state in the case of supplying gas from a single...

...from the gas supply network to a customer 9 by set quantity of in the short supply state in which the acceptance quantity is less than the paid quantity by the set...

... is decided by a decision means 43 of over and shorts state of supply. Allowed increase and decrease of the respective customers 9 are calculated by a quantity increase and decrease calculating means 42. The generation of the excess supply state and the short supply state is evaded by supplying an excess portion to the customer 9 with the allowed increase when the acceptance quantity is in the excess supply state and decreasing a short portion at the customer 9 with the allowed decrease when the acceptance quantity is in the short supply state.

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14/3,K/2 (Item 2 from file: 347)

DIALOG(R) File 347: JAPIO

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07163731 \*\*Image available\*\*

DELIVERY DATE ANSWER METHOD AND SYSTEM

PUB. NO.: 2002-032115 [JP 2002032115 A]

PUBLISHED: January 31, 2002 (20020131)

INVENTOR(s): HIKI YUSUKE

TAMURA KIMITAKA KITA KAZUMASA IIJIMA TOSHIKAZU KOBAYASHI HIDEKO

APPLICANT(s): HITACHI LTD

APPL. NO.: 2000-218726 [JP 2000218726] FILED: July 14, 2000 (20000714)

------

INTL CLASS: G05B-019/418; G06F-017/60

#### ABSTRACT · ·

... BE SOLVED: To quickly answer the accurate delivery date under an environment matched with a **current** state even when a production plan is changed due to the shortage of necessary parts...

... information input processing part for processing the input of information of parts which are in **short supply** due to a factor for

interrupting the execution of the production plan, a product constitution

... part for executing the reverse development processing of product constitution and an execution disabled plan management part for managing a production plan of products which can not be produced in accordance with the plan...

14/3,K/3 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015497071 \*\*Image available\*\* WPI Acc No: 2003-559218/200352

XRPX Acc No: N03-444543

Remote data acquisition/control system, e.g. for electric power system, has system intelligence distributed amongst central unit, concentrators or intermediate stations and electricity meters, all using

bi-directional data communications

Patent Assignee: ENEL DISTRIBUZIONE SPA (ENEL-N)

Inventor: ROGAI S

Number of Countries: 102 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200355031 A2 20030703 WO 2002EP14687 A 20021220 200352 B

Priority Applications (No Type Date): IT 2001MI2726 A 20011220 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200355031 A2 E 16 H02J-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM  $^{\rm ZW}$ 

Remote data acquisition/control system, e.g. for electric power system, has system intelligence distributed amongst central unit, concentrators or intermediate stations and electricity meters, all using bi-directional data communications

Abstract (Basic):

. A set of meters for measuring electric **energy** consumption is connected through concentrators, or intermediate stations, and bi-directional data transmission units to...

. For several, dispersed domestic consumers of **electrical power** , water and gas...

...Guaranteed regular and continuous working even during blackouts .

... Title Terms: POWER;

International Patent Class (Main): H02J-000/00

... Manual Codes (EPI/S-X): X12-H01B ...

... X12-H03A

14/3,K/4 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014906050 \*\*Image available\*\*

```
XRPX Acc No: N02-573097
  Utility service system has amount computation unit which calculates
  acceptance quantity increase of each customer
Patent Assignee: OSAKA GAS CO LTD (OSAG )
Number of Countries: 001 Number of Patents: 001
Patent Family:
                   /Date
                            Applicat No
                                           Kind
Patent No
             Kind
                                                  Date
                                                           Week
                  2002,0816 JP 200128149
                                           A 20010205 200279 B
JP 2002230102 A
Priority Applications (No Type Date): JP 200128149 A 20010205
Patent Details:
Patent No Kind Lan Pg Main IPC
                                    Filing Notes
JP 2002230102 A
                  10 G06F-017/60
  Utility service system has amount computation unit which calculates
  acceptance quantity increase of each customer
Abstract (Basic):
          The acceptance quantity increase of each customer (9) is
   calculated using an amount computation unit (42), so that over supply
   or insufficient supply is prevented.
           Utility service system...
... The figure shows the block diagram of the utility service system.
    (Drawing includes non-English language text
...Title Terms: INCREASE ;
International Patent Class (Main): G06F-017/60
...International Patent Class (Additional): H02J-003/00
Manual Codes (EPI/S-X): T01-J05A ...
 14/3, K/5
             (Item 3 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
014877989
            **Image available**
WPI Acc No: 2002-698695/200275
XRPX Acc No: N02-550933
 Method, system and computer program product for controlling and
  regulating electrical loads connected to electrical network, uses
  device at load point with means for remote invoking in order to switch on
  or off a part load of end user
Patent Assignee: GJERDE J O (GJER-I); GUNDERSEN L S (GUND-I); QUAINTANCE W
 H (QUAI-I); VU K (VUKK-I); ABB RES LTD (ALLM
Inventor: GJERDE J O; GUNDERSEN L S; QUAINTANCE W H; VU K; GJERDE J;
  GUNDERSEN L; QUAINTANCE W
Number of Countries: 098 Number of Patents: 002
Patent Family:
                   Date
Patent No
             Kind
                            Applicat No
                                           Kind
                                                  Date
             A1 2\00209\06 WO 2002SE310
WO 200269471
                                           Α
                                                20020222
                                                          200275 B
US 20020162032 A1 20021031 US 2001793589
                                                 20010227 200279
                                           Α
Priority Applications (No Type Date): US 2001793589 A 20010227
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                    Filing Notes
WO 200269471 A1 E 40 H02J-003/14
   Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CH
   CN CO CR CU DM DZ EC EE ES GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
   RU SD SE SG SI SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
US 20020162032 A1
                       G06F-001/26
```

WPI Acc No: 2002-726756/200279

Method, system and computer program product for controlling and

regulating electrical loads connected to electrical network, uses device at load point with means for remote invoking in order to switch...

Abstract (Basic):

The system, a method, and a computer program product are for load management in an electrical power generation, transmission and distribution network. A device arranged at a load point comprises means for a procedure call that may be remotely invoked...

...or off a part load of an end user for the purpose of load demand management . The invention enables load to be reduced incrementally and restored quickly and automatically and is...

.. Method, system and a computer program product for controlling and regulating electrical loads connected to an electrical network

... Uses web technology to provide a **power** network with automated load **management** in an economic way. In a **power** network, the invention spreads the load shaving or shedding more evenly over a wide geographical area, as opposed to the traditional method of 'rotating **blackouts**'. Provides a method and a system for regulation of one or more loads by means...

...Manual Codes (EPI/S-X): X12-H03A

14/3,K/6 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014823356 \*\*Image available\*\*
WPI Acc No: 2002-644062/200269
XRPX Acc No: 102-509135

Item exchange method for the transfer and exchange of electronic items, authorizes one or more buyers of an item to become providers of that item to further buyers

Patent Assignee: BLAU A (BLAU-I)

Inventor: BLAU A

Number of Countries: 100 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200275622 A2 20020926 WO 2002IL216 A 20020319 200269 B

Priority Applications (No Type Date): US 2001277064 P 20010320 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200275622 A2 E 23 G06F-017/60

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Item exchange method for the transfer and exchange of electronic items, authorizes one or more buyers of an item to become...

Abstract (Basic):

.. For the **transfer** and exchange of electronic items, such as electronic content, certificates, licenses, money, options, contracts, computing **power**, communication line bandwidth and/or hard disc space

...giving priority to high bandwidth peers on the network, the method enables items to be **distributed** faster, whilst the load on the network is more homogeneous and bandwidth **bottlenecks** may be reduced

or prevented, possibly eliminating the need for expensive servers and trained personnel managing the servers... ... Title Terms: TRANSFER ; International Patent Class (Main): G06F-017/60 14/3,K/7 (Item 5 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 014614413 WPI Acc No: 2002-435117/200246 XRPX Acc No: N02-342527 Energy load curtailment method in network-based service, involves providing aggregated data to energy market purchasers for purchase of energy curtailment rights Patent Assignee: RETX.COM INC (RETX-N) Inventor: MALME R; SCARPELLI P C Number of Countries: 094 Number of Patents: 002 Patent Family: Kind Date / Applicat No Date Patent No ' Kind A1 2/00203/28 WO 2001US29090 A 20010918 200246 B WO 200225543 . **A** 20020A02 AU 200192727 20010918 AU 200192727 Priority Applications (No Type Date): US 2000233419 P 20000918 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 200225543 A1 E 67 G06F-017/60 Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW G06F-017/60 Based on patent WO 200225543 AU 200192727 A Energy load curtailment method in network-based service, involves providing aggregated data to energy market purchasers for purchase of energy curtailment rights Abstract (Basic): Curtailment energy commitment data is received through a communication network and aggregated. The aggregated data is provided to energy market purchasers for purchase of energy curtailment. An INDEPENDENT CLAIM is also included for energy load curtailment system... ... Used in field of network-based services for power generation, transmission, grid management, etc... ...Significant amount of untapped energy resource can be made available during peak demand periods. The energy consumers are transformed into potential energy sellers. Thus the problem of transmission bottlenecks is reduced... ... The figure shows the functional block diagram of the virtual reality system of energy load curtailment method... Title Terms: ENERGY; International Patent Class (Main): G06F-017/60

14/3,K/8 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

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\*Image available\*\* 014572120 WPI Acc No: 2002/392824/200242 XRPX Acc No: \002/-307934 Engine-operated generator for use during power failure, detects the fault in generator when rectified generator output drops below a specified level after interconnection of commercial power system to inverter circuit Patent Assignee: HONDA GIKEN KOGYO KK (HOND ); HONDA MOTOR CO LTD (HOND ) Inventor: FUKUSHIMA T; KAMIMURA K; KOTANI Y; TAMECHIKA T Number of Countries: 029 Number of Patents: 004 Patent Family: Date Week Patent No Kind Date Applicat No Kind 20010827 200242 B US 20020024323 A1 20020228 US 2001938729 A 20010822 200242 A2 20020313 EP 2001119668 Α EP 1187293 20000828 20020315 JP 2000257701 200242 Α JP 2002078208 A Α 20010828 200246 20020320 CN 2001125852 Α CN 1340894 Priority Applications (No Type Date): JP 2000257701 A 20000828 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes 14 H02J-001/00 US 20020024323 A1 H02J-003/38 EP 1187293 A2 E Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR 13 H02J-003/38 JP 2002078208 A H02J-003/00 CN 1340894 Α Engine-operated generator for use during power failure, detects the fault in generator when rectified generator output drops below a specified level after interconnection of commercial power system to inverter circuit Abstract (Basic): A connector relay (135) interconnects inverter circuit (13) to a commercial power supply (14). The connector relay is opened when the rectified generator output drops below specified... Engine-operated generator apparatus e.g. generator for use in case of blackout or power failure... ...such as line breakage in winding during operation of generator is detected with a simple arrangement . Adverse effects on commercial power system at interconnection with inverter circuit, is minimized while engine is run steadily, enabling rectified... ..... ...Commercial power supply (14... ... Title Terms: POWER ; ...International Patent Class (Main): H02J-003/00 (Item 7 from file: 350) 14/3,K/9 DIALOG(R)File 350:Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 014096703 WPI Acc No: 2001-580917/200165 Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942; 2002-434191; 2003-076172 XRPX Acc No: N01-432691 System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow the gate collection Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N) Inventor: CAZALET E G; FU C; SAMUELSON R; STREMEL J; TENEV T Number of Countries: 091 Number of Patents: 004 Patent Family: Patent No Applicat No Kind Week Kind Date

20010607 WO 2000US22487 A 20000816 200165 B WO 200141279 Α1 20010¢12 AU 200067781 A 20000816 200165 AU 200067781 Α NO 200202555 Α 20020717 WO 2000US22487 A 20000816 200260 NO 20022555 Α 20020529 20020828 EP 2000955602 A 20000816 200264 EP 1234368 A1 WO 2000US22487 A 20000816 Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213 P 19991130; US 99163213 P 19991130 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 200141279 A1 E 99 H02J-003/00 Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW AU 200067781 A H02J-003/00 Based on patent WO 200141279 NO 200202555 A H02J-000/00 H02J-003/00 EP 1234368 A1 E Based on patent WO 200141279 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow gate of the gate collection Abstract (Basic): flow of execution (1060) for a starting operation (1022) goes to an operation (1062), performing contracting of the associated AC transfer on each of the flow gates of the flow gate collection, to take place over at least a first time interval, while the execution (1064... INDEPENDENT CLAIMS are included for a method for contracting transfer on an AC power network and for a computer AC power system supporting program... ... Controlling AC electrical power transfer in a frequency controlled AC power network... ... Trading transfer rights in a timely, reliable and efficient manner... ... The drawing shows operation of the flow transfer over a first time interval ... Title Terms: MANAGE ; International Patent Class (Main): H02J-000/00 ... ... H02J-003/00 International Patent Class (Additional): G06F-017/60 Manual Codes (EPI/S-X): T01-J05A ... ... X12-H01B ... ... X12-H03A (Item 8 from file: 350) 14/3, K/10DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 012305113 \*\*Image available\*\* WPI Acc No: 1999-111219/199910 XRPX Acc No: N99-081091 Electric power management system for electric power consumption billing system - uses power utilization calculating device of total fee management apparatus to compute power consumption fee of power requirement installation based on power consumption information received via stationary satellite

Patent Assignee: TOSHIBA KK (TOKE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 10334385 A 19981218 JP 97141898 A 19970530 199910 B

Priority Applications (No Type Date): JP 97141898 A 19970530 Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 10334385 A 13 G08C-015/00

Electric- power management system for electric power consumption billing system...

- ...uses power utilization calculating device of total fee management apparatus to compute power consumption fee of power requirement installation based on power consumption information received via stationary satellite
- ...Abstract (Basic): NOVELTY The power utilization calculating device (150c) of a total fee management apparatus (100) computes the utilization fee corresponding to the power consumption of a power requirement installation (300) at home based on the power consumption amount data received by the management apparatus from the power requirement installation via a stationary satellite (200). DETAILED DESCRIPTION The power consumption detector (350b) of a power requirement installation (300) determines the amount of power consumption of an automatic installation at a predetermined time based on the output information from a electric supply meter (360). The transmission controller of the power requirement installation enables the transmission of the output of the power consumption detector to a total fee management apparatus (100) as a power consumption amount information via a stationary satellite. The reception controller (150b) of the total fee management apparatus allows the reception of the sent power consumption amount information
- ... USE For charging consumer regarding consumed electric **power** at home using communication satellite system...
- ...ADVANTAGE Enables management of power consumption and billing of the power requirement installation even without checking electric supply meter. Power consumption of power requirement installation can be reduced via satellite when consumption level is more than predetermined value. Can quickly correspond to short supply of electric power in power requirement installation. DESCRIPTION OF DRAWING(S) The figure shows the block diagram of the circuit component of an electric-power management system. (100) total fee management apparatus; (150b) reception controller; (150c) power utilization calculating device; (200) stationary satellite; (300) power requirement installation; (350b) power consumption detector; (360) electric supply meter...

... Title Terms: POWER;

...International Patent Class (Additional): H02J-003/00

14/3,K/11 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011621575 \*\*Image available\*\*
WPI Acc No: 1998-038703/199804
XRPX Acc No: N98-031175

Network flow managing method for water works and electric power system - involves obtaining influence of variation in flow corresponding

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to network operation and predicting variation in flow in particular
  sub-block
Patent Assignee: HITACHI JOHO SEIGYO SYSTEM KK (HITA-N); HITACHI LTD (HITA
Number of Countries: 001 Number of Patents: 001
Patent Family:
             Kind Date
                            Applicat No
Patent No
                                          Kind
                                                 Date
                                                          Week
              A 19971111 JP 96103053
                                                        199804 B
JP 9292922
                                          Α
                                               19960425
Priority Applications (No Type Date): JP 96103053 A 19960425
Patent Details:
                        Main IPC
                                    Filing Notes
Patent No Kind Lan Pg
JP 9292922
            Α
                    9 G05D-007/06
 Network flow managing method for water works and electric power
  system...
... Abstract (Basic): The network flow managing method involves prediction
    of variation in flow accompanied by branch switching and other
    operations, and...
...ADVANTAGE - Improves efficiency of calculation of network flow. Improves
    efficiency of avoiding bottle necks . Enables correct extraction of
    part related to local operation of network...
... Title Terms: MANAGE;
...International Patent Class (Additional): G06F-017/60
...Manual Codes (EPI/S-X): T01-J05A ...
... X12-H01B ...
... X12-H03A
              (Item 10 from file: 350)
14/3,K/12
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
            **Image available**
011033507
WPI Acc No: 1997-011431/199701
XRPX Acc No: N97-010012
  Control appts. for electrical load in load management system e.g. for
   electrical utility - has communicator for transmitting electrical
  load data and load control data to distant data processing centre, with
  monitors for evaluating distribution or interruption of energy
Patent Assignee: SCIENTIFIC-ATLANTA INC (SCAT )
Inventor: DAVIS G A; MASSARA J M
Number of Countries: 001 Number of Patents: 001
Patent Family:
            Kind
                                                          Week
Patent No
                    Date
                            Applicat No
                                           Kind
                                                  Date
                 19961119 US 92935837
                                                19920826 199701 B
US 5576700
              Α
                                           A
Priority Applications (No Type Date): US 92935837 A 19920826
Patent Details:
Patent No Kind Lan Pg
                       Main IPC
                                    Filing Notes
US 5576700
                   20 H04Q-001/00
             Α
  Control appts. for electrical load in load management system e.g. for
   electrical utility - ...
...has communicator for transmitting electrical load data and load
  control data to distant data processing centre, with monitors for
  evaluating distribution or interruption of energy
...Abstract (Basic): An electrical load management system includes a
    number of an improved load control switching and monitoring appts. Each
    of the improved apparatus is located proximate to an electrical load
```

to be controlled . A data processing centre remotely located and

separated from the **electrical** load, causes **electrical** load reductions in an **electrical distribution** network and monitors each of the **electrical** load reductions and **energy** supplied to the **electrical** load...

...The appts. comprises a control device for controlling the electrical load in the electrical distribution network in response to command signals transmitted by a command centre, which is remotely located from the electrical load. A first monitoring device generates electrical load data in response to detecting the distribution and interruption of the energy to the electrical load. A second monitoring device generates electrical load control data in response to detecting the control operation. A data collection device collects the electrical load data and the electrical load control data and communicates both to the data processing centre. The latter processes the electrical load data and the load control data to determine the effectiveness of the electrical load management system...

...ADVANTAGE - Helps minimise **electrical black - outs** or brown-outs...
...Title Terms: **MANAGEMENT**;

... Manual Codes (EPI/S-X): X12-H03A

14/3,K/13 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010391997 \*\*Image available\*\*
WPI Acc No: 1995-293311/199538

XRPX Acc No: N95-221841

Remote control of electrical load e.g electric water heater, esp. in consumer's premises. - using switching circuit which is responsive to deliberate signal deviations such as brownout intervals or overvoltage spikes to reduce or increase output power to load

Patent Assignee: DOSANI N (DOSA-I); LADHA N (LADH-I)

Inventor: DOSANI N; LADHA N

Number of Countries: 060 Number of Patents: 003

Patent Family:

Patent No Kind Kind Date Applicat No Date A1 19950817 WO 95CA77 WO 9522190 Α 19950215 199538 B 19950816 CA 2115717 CA 2115717 A Α 19940215 199545 19950829 AU 9517026 AU 9517026 19950215 199548 Α Α

Priority Applications (No Type Date): CA 2115717 A 19940215 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9522190 A1 E 55 H02J-003/14

Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

AU 9517026 A H02J-003/14 Based on patent WO 9522190

CA 2115717 A H02J-001/00

Remote control of electrical load e.g electric water heater, esp. in consumer's premises...

- ...responsive to deliberate signal deviations such as brownout intervals or overvoltage spikes to reduce or increase output power to load
- ...Abstract (Basic): A **power** modulator (10) has input (12), output (14), microprocessor (18) and a **power** redn. circuit (14) which reduces **power** e.g. by ''cycle stealing'' or ''phase firing'' using TRIACs to withhold a portion of...

. . . .

- ...A brownout or blackout sensor (24) will respond to voltage drops to turn off the load until a voltage...

  ...ADVANTAGE Electricity utility can control electrical power consumption e.g. during peak demand periods, reducing power to selected loads or deactivating them completely according to priority...

  ...Title Terms: INCREASE;

  ...Manual Codes (EPI/S-X): X12-H03A
- 14/3,K/14 (Item 12 from file: 350)
  DIALOG(R)File 350:Derwent WPIX
  (c) 2003 Thomson Derwent. All rts. reserv.

010338133 \*\*Image available\*\*
WPI Acc No: 1995-240221/199531

Related WPI Acc No: 1986-131543; 1995-089457; 1995-283335; 2001-181368

XRPX Acc No: N95-187345

Microcomputer based power line protection, monitoring and management system - has one or more switches serially connected to line for enabling, disabling or interrupting current flow through line, and secondary protector across output of switch

Patent Assignee: OMTRONICS CORP (OMTR-N)

Inventor: AHUJA O

Number of Countries: 001 Number of Patents: 001

Patent Family:

Kind Patent No Date Applicat No Kind Date Week 19841024 199531 B US 5428494 Α 19950627 US 84664472 A US 86833360 Α 19860225 US 89314632 Α 19890222 US 91684167 Α 19910411 US 938674 Α 19930125

Priority Applications (No Type Date): US 938674 A 19930125; US 84664472 A 19841024; US 86833360 A 19860225; US 89314632 A 19890222; US 91684167 A 19910411

Patent Details:

Patent No Kind Lan Pg Main IPC US 5428494 A 20 H02H-003/00

Filing Notes

CIP of application US 84664472

CIP of application US 86833360

Div ex application US 89314632

CIP of application US 91684167

Microcomputer based power line protection, monitoring and management system...

- ...has one or more switches serially connected to line for enabling, disabling or interrupting current flow through line, and secondary protector across output of switch
- ...Abstract (Basic): The appts. for protecting, monitoring and managing AC/DC electrical line or a telecommunication line has at least one switch serially connected to the electrical line for enabling, disabling or interrupting the flow of an electrical current through the line w.r.t. a control signal. At least one secondary voltage protector...
- ...signal in response to at least one of the first and second predetermined values to manage the switch, so that the switch enables or disables the flow of the electric current in the line. The switch includes an electro-mechanical switch, or an AC/DC solid...
- ... USE/ADVANTAGE Protects against overvoltage, multi-stage surge, noise and transients, high **energy** lightning pulses etc. Provides primary and secondary protection in safe way, such that system integrity is maintained. Brown-outs and **blackouts** are also prevented...

... Title Terms: POWER;

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(Item 13 from file: 350)
 14/3, K/15
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
009590969
WPI Acc No: 1993-284515/199336
XRPX Acc No: N93-218906
 Operating device for power distribution system - has computers to
  select distribution line with most reserved power for virtual power
  interchange and to reduce interchanging overload, ensuring quick recovery
 from black - out
                    NoAbstract
Patent Assignee: TOSHIBA KK (TOKE
Number of Countries: 001 Number of Patents: 002
Patent Family:
                             Applicat No
                                           Kind
Patent No
             Kind
                    Date
                                                  Date
                                                           Week
                   19930806 JP 92233997
JP 5199656
                                            Α
                                                 19920902
                                                          199336 B
              Α
              B2 20010917 JP 92233997
                                                 19920902
                                             Α
                                                          200156
JP 3210086
Priority Applications (No Type Date): JP 91254054 A 19911002
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                     Filing Notes
                     7 H02J-003/00
JP 5199656
             A
             B2
                     7 H02J-003/00
                                     Previous Publ. patent JP 5199656
JP 3210086
 Operating device for power
                              distribution system...
...has computers to select distribution line with most reserved power
  for virtual power interchange and to reduce interchanging overload,
  ensuring quick recovery from black - out
                                             NoAbstract
... Title Terms: POWER;
International Patent Class (Main): H02J-003/00
... Manual Codes (EPI/S-X): X12-H03A
 14/3,K/16
               (Item 14 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
009373178
             **Image available**
WPI Acc No: 1993-066657/199308
XRPX Acc No: N93-051021
  Operation of installation comprising long electrical conductors -
  receiving and-or collectiing real-time data representative of time
  derivative of earth magnetic field at several points
Patent Assignee: AT & T BELL LAB (AMTT
Inventor: KRAUS J S; LANZEROTTI L J; MEDFORD L V
Number of Countries: 001 Number of Patents: 001
Patent Family:
                             Applicat No
Patent No
              Kind
                     Date
                                            Kind
                                                   Date
                                                            Week
                   19930202 US 90540434
                                                           199308 B
US 5184311
              Α
                                            Α
                                                 19900619
Priority Applications (No Type Date): US 90540434 A 19900619
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
                    11 G01V-003/08
US 5184311
             Α
  Operation of installation comprising long electrical conductors...
... Abstract (Basic): The method of operating an installation that comprises
    one or more long electrical conductors (exemplarily an electric
```

...due to SMD, but also can provide warning of impeding operating

utility, telecommunciation system or pipeline) involves receiving and/or collecting substantially real time data representative of...

difficulties, such as possible increased power demand by a remote installation...

...protective action in case of solar magnetic disturbances (SMD). Such disturbances in past have caused **black** - **outs** and other undesirable conditions...

...Manual Codes (EPI/S-X): X12-H03A

```
File 15:ABI/Inform(R) 1971-2003/Oct 04
         (c) 2003 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2003/Oct 03
File
         (c) 2003 Resp. DB Svcs.
File 610:Business Wire 1999-2003/Oct 06
         (c) 2003 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 275: Gale Group Computer DB (TM) 1983-2003/Oct 03
         (c) 2003 The Gale Group
File 476: Financial Times Fulltext 1982-2003/Oct 06
         (c) 2003 Financial Times Ltd
File 624:McGraw-Hill Publications 1985-2003/Oct 03
         (c) 2003 McGraw-Hill Co. Inc
File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 03
         (c) 2003 The Gale Group
File 621:Gale Group New Prod.Annou. (R) 1985-2003/Oct 06
         (c) 2003 The Gale Group
File 613:PR Newswire 1999-2003/Oct 06
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
     16:Gale Group PROMT(R) 1990-2003/Oct 03
         (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 634:San Jose Mercury Jun 1985-2003/Oct 04
         (c) 2003 San Jose Mercury News
File 148:Gale Group Trade & Industry DB 1976-2003/Oct 06
         (c) 2003 The Gale Group
      20:Dialog Global Reporter 1997-2003/Oct 06
         (c) 2003 The Dialog Corp.
File 995:NewsRoom 2000
         (c) 2003 The Dialog Corporation
Set
        Items
                Description
                (POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITI-
S1
       114282
             ES OR ENERGY) (2W) (NETWORK? ? OR GRID)
                FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC-
S2
             K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR (INSUFFICIEN? OR INAD-
             EQUATE OR SCARCE OR DEFICIENT OR ("NOT"() ENOUGH) OR SHORT)()(-
             SUPPLY OR CAPACITY)
                (NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR AR-
S3
       511783
             RANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR H-
             ANDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?) (2-
             W) (SUPPLY OR CAPACITY OR QUANTIT???)
                (REAL OR SAME) () TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR
S4
     24249061
              IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP (1W) D-
             ATE OR UP (2W) MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU-
             RRENT? OR BEHIND (2W) SCENE? OR ON () FLY
S5
          523
                S1 AND S2 AND S3 AND S4
                (S1(5N)S2) AND (S3(5N)S4)
S6
                S1 AND S2 AND (S3(5N)S4)
S7
           26
                S7 NOT PD>20000404
S8
           14
S9
                RD (unique items)
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9/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01991179 49450136

NAS systems offer lifeline to overburdened networks

Williamsen, Bob

Computer Technology Review v20nl PP: 50-51+ Jan 2000

ISSN: 0278-9647 JRNL CODE: GBAMN

WORD COUNT: 1124

...TEXT: applications, traditional server-based storage solutions are being Pushed two the breaking point. Even beyond **bottlenecks**, network crashes, and data corruption, the need for management and day-to-day troubleshooting is...

...can be up and running in less than 10 minutes. All that is required is power , a network connection, and a valid IP address to serve and store critical data. A look behind...

...staff intervention.

Ease of installation - Adding a NAS system to an already overworked server can immediately increase storage capacity --either to all or selected users. Installation can be as simple as attaching power and network cables, entering the IP address information through the front panel, setting up volumes, shares, and... in freeing IT from non-productive, resource issues. Whether these systems are deployed to relieve bottlenecks and capacity issues from file and print services or to support growing Webbased service environments...

9/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01980603 49076354

Creating a smart power-delivery system

Lewis, Stuart M

Transmission & Distribution World v52n1 PP: 34-41 Jan 2000

ISSN: 1087-0849 JRNL CODE: TMD

WORD COUNT: 2935

...TEXT: the while realizing that we could be contributing to conditions that lead to brownouts and **blackouts**. Widespread outages in Chicago and New York in the summer of 1999 made it only...

... distribution systems that make up our grid must be transformed into an electronically controlled, smart **electricity network** if we are to support our rapidly changing digital economy," says Kurt Yeager, president and...

... these controllers allow transmission lines to be loaded closer to their inherent thermal limits, effectively **increasing** their **capacity**.

FACTS controllers are **now** entering utility service after a 20-year development stage. One recent example is the unified...

... It can force a line to carry power that would naturally flow elsewhere, thereby eliminating bottlenecks and diverting power to underused paths. Renz says this is the first time that transmission...Western Area Power Administration are installing the WAMS information network in the western United States power grid . It was precipitated by the wide area power outages in the western United States in...

...transient disturbances. Batteries that can respond rapidly have been too expensive for widespread use. The **power grid** of the future needs

storage technology that is fast and inexpensive and that can be... implementation of these solutions is being delayed until restructuring policies encourage greater investment in the **power grid**, or at least do not discourage investment. Until then, the risk of major power interruptions...

9/3,K/3 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01969979 44651965

Transmission by de\$ign

White, Anthony; Stahlkoph, Karl

Electric Perspectives v24n5 PP: 20-29+ Sep/Oct 1999

ISSN: 0364-474X JRNL CODE: ELP

WORD COUNT: 4002

...TEXT: should be incorporated is fundamental and reveals the difficulties of applying simple economic theory to **electricity networks**. Transmission charges could be incorporated in the nodal electricity price-that is, the price at...higher current;

- \* deploying flexible alternating current transmission system (known as FACTS) devices (see the sidebar, " **Increasing** the **Capacity** of Existing Transmission Networks");
- \* developing live -wire maintenance;
- \* negotiating tougher constraint contracts with generators;
- \* encouraging the development of load management by...transmission systems are being expected to perform functions for which they were not designed, and bottlenecks are becoming evident. Just how close some grids are to their stability limits was illustrated...

9/3,K/4 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01648918 02-99907

Understanding packet-by-packet and flow-based switching for Layer 3 networks

Tuinzing, Reinier

Computer Technology Review v18n5 PP: 12-16 May 1998

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 2199

...TEXT: to new patterns and network architectures. If not deployed with a balanced network in mind, bottlenecks and errors may occur. A balanced network matches nodes to network capacities, and creates a network hierarchy with no bottlenecks, thus increasing efficiency. In an ideal configuration, the client, server, and network are operating in...

... in switches and are silicon-based, as opposed to software-based, solutions. They offer the **power** of **network** routers while operating at nearswitching speed. Obviously, multi-gigabit routers can also move large amounts...3 switches across the network, eliminating the possibility that a centralized switch can become a **bottleneck** or point of failure.

Another distinct advantage of packet-bypacket switches for IT managers is ... relatively painless. By inserting these switches at selected points in the network, IT managers can **increase** their network **capacity** incrementally, while at the **same time** enjoying the opportunity for a real-world evaluation of this technology, including interoperability

was serviced and services

testing with...

... winning scenario for everyone and to eliminate those sleepless nights filled with dreams of crashes, **bottlenecks**, and, worst of all, those dreaded phone calls from angry users.

Author Affiliation:

Reinier Tuinzing...

9/3,K/5 (Item 5 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01573075 02-24064 Construction projects span the globe

George, Gerry

Transmission & Distribution World v50n1 PP: 38-48 Jan 1998

ISSN: 1087-0849 JRNL CODE: TMD

WORD COUNT: 2723

...TEXT: existing 500-kV ac transmission network between Guangxi and Guangdong provinces in south China has insufficient capacity to provide the west to east bulk power transfer needed to supply the industrial and commercial development now in progress between Guangzhou and Hong Kong. The China National Technical Import and Export Corporation

... to Shanghai providing a 1200 MW interconnection between the east China and central China regional power networks

The specification for the scheme should ensure that optimum performance in terms of system availability...

... Wales system is via Victoria. The load forecast for 1999 indicates that South Australia has **insufficient** capacity to supply its summer peak load. An additional 275-kV transmission line to directly link...

9/3,K/6 (Item 6 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01508812 01-59800

Regional power markets: Roadblock to choice? Wojick, David E

Public Utilities Fortnightly v135n18 PP: 28-32 Oct 1, 1997

ISSN: 1078-5892 JRNL CODE: PUF

WORD COUNT: 2968

...TEXT: federal generating and marketing agencies.

That's the wholesale market. But the wonderful strangeness of **electricity** makes the **grid** a commodity market like no other. Consider the term "loop flow." It was coined by...

they are bound by legal preference. Large IOUs have opted to buy power rather than increase generating capacity; IOU's purchased power costs now equal fuel costs. The control centers also have worked hard to find cheap power. However...least several unpredictable weeks a year. Otherwise, the nation would run short of power and black out because electricity, unlike other commodities, can't be sold on a first-come basis. But...

9/3,K/7 (Item 1 from file: 624)

DIALOG(R) File 624: McGraw-Hill Publications (c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

#### 00806280

How can the flow of power be controlled?

Electrical World October 1996; Pg 28; Vol. 210, No. 10

Journal Code: EW ISSN: 0013-4457

Section Heading: Special Report: Competition deregulation: Is the US

rushing into the dark?

\*Full text available in Formats 5, 7 and 9\* Word Count: 802

#### TEXT:

...little or no control flexibility to meet changing network conditions.

All power generators supply reactive power to the network as well as active power. The proportion can be controlled by controlling the excitation. The...

... now in operation around the world on critical transmission lines and where there are power bottlenecks .

A synchonous compensator is the solid-state equivalent of the rotating condenser. It provides a continuously controllable synchronous of reactive power and does not need space-consuming banks of capacitors and inductors. The...

9/3,K/8 (Item 1 from file: 636) DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

Supplier Number: 60585270 (USE FORMAT 7 FOR FULLTEXT) 04611010 Creating a Smart Power-Delivery System. . . . . Transmission & Distribution World, pNA

Jan, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2895

### (USE FORMAT 7 FOR FULLTEXT)

...the while realizing that we could be contributing to conditions that lead to brownouts and blackouts . Widespread outages in Chicago and New York in the summer of 1999 made it only...

distribution systems that make up our grid must be transformed into an electronically controlled, smart electricity network if we are to support our rapidly changing digital economy," says Kurt Yeager, president and...these controllers allow transmission lines to be loaded closer to their inherent thermal limits, effectively increasing their capacity .

FACTS controllers are now entering utility service after a 20-year development stage. One recent example is the unified...

...It can force a line to carry power that would naturally flow elsewhere, thereby eliminating bottlenecks and diverting power . . Western Area Power Administration are installing the WAMS information network in the western United States power grid . It was precipitated by the wide area power outages in the western United States in . . transient disturbances. Batteries that can respond rapidly have been too expensive for widespread use. The power grid of the future needs storage technology that is fast and inexpensive and that can be...implementation of these solutions is being delayed until restructuring policies encourage greater investment in grid , or at least do not the **power** 

9/3, K/9(Item 2 from file: 636) DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

03902206 Supplier Number: 50079038 (USE FORMAT 7 FOR FULLTEXT)
HEWLETT-PACKARD: Simplex Interconnect verification tools combine with HP's
64-Bit operating system

M2 Presswire, pN/A

June 16, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 817

RDATE: 150698

-- To give chips increased speed and capacity Designers of Multimillion-transistor Chips Now Can Extract and Analyze Much Larger Designs Than Previously Possible Hewlett-Packard Company and Simplex...

...to keep up with the continuous explosion in design sizes by avoiding the run-time **bottleneck** of a single processor."

"We are delighted to offer Simplex's advanced software technology on

...integrity and electromigration analysis. Fire & Ice extracts the interconnect RC parasitics, transistors, discrete components and **power** grid for multimillion-transistor circuits in a matter of hours, providing the accuracy of 3-D...

9/3,K/10 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c) 2003 The Gale Group. All rts. reserv.

07979523 SUPPLIER NUMBER: 17222804 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Freeing Indian steel. (steel industry) (includes related articles) (Indian
Steel: Restructuring) (Industry Overview)

Narayan, N.

New Steel, v11, n6, p22(6)

June, 1995

DOCUMENT TYPE: Industry Overview LANGUAGE: English RECORD TYPE:

Fulltext; Abstract

WORD COUNT: 3415 LINE COUNT: 00266

... an enormous amount of money in the steel industry both to modernize plants and to **increase** production **capacity**. Between **now** and 2001, Sail alone plans to spend \$7 billion to upgrade its technology and expand

...owned and controlled by the state. The infrastructure - transport, ports, and power - has big problems: **insufficient capacity**, outmoded methods and technology, and a very poor work culture. This is the biggest roadblock...tons during this time; India didn't begin its economic liberalization until mid-1991.

The insufficient supply of Indian steel also suppressed per-capita consumption of steel. Between 1950 and 1990, China...to 2 metric tons.

These plants used energy inefficiently, but they made money by stealing power from the grid and by not paying excise and sales taxes on their ingots. There is no valid...

9/3,K/11 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07507865 SUPPLIER NUMBER: 15717627 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Demand soars as supplies run short. (MEED Special Report: Power)

Blair, Edmund; Blum, Charlotte; Butter, David; Hindley, Angus; Kemp, Peter;

Marks, Jon; Petrossian, Vahe

MEED Middle East Economic Digest, v38, n33, p27(10)

August 19, 1994

ISSN: 0047-7230 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 7787 LINE COUNT: 00604

TEXT:

...new generating capacity. Due to an explosion of domestic and industrial demand regional utility companies **now** face the need to **increase supply** by rates of up to 15 per cent a year. Power cuts can occur at...

... systems

Israel is the main source of electricity, but many local firms generate their own **power** because the **grid** system is so unreliable and connection charges often far exceed the cost of buying and...of its capacity but, after almost four years of UN sanctions, spare parts are in **short supply** and several of the country's power stations are not functioning.

The government is regularly...sector involvement in the industry, as part of its overall privatisation programme.

LEBANON

RESTORING THE power network has been one of the top priorities of Lebanon's reconstruction programme. Installed capacity is...

...are due to be opened by the end of August.

The quick work on the **power network** has already meant that power is available for at least 12 hours a day. By...Authority also invited two sets of bids in early July for the installation of the **power** distribution **grid** as part of the second phase of the great manmade river. The first, worth around...and connect the 90-MW plant, complete with substations and transmission lines to the national **power grid**, over two years, and sell power to the government for 20 years. The total cost...
...29:7:94).

Oil is the preferred fuel for power projects, as gas is in **short supply** . But the new policy is also aimed at exploiting coal deposits, which were boosted by...

... Fontas B has been fully commissioned.

Of more immediate interest to international contractors is the **power** distribution **network**. MEW is expected to invite bids soon for the long-planned phase four of the...

#### STN

FILE	'CONFSCI, E	LCOM, ENERGY, ENTEC' ENTERED AT 15:07:28 ON 06 OCT 2003
L1	2324655	S POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES O
L2	2 :	S S1(2W)(NETWORK# OR GRID)
L3	4504	S FLOW()GATE# OR FLOWGATE# OR BOTTLENECK? OR BOTTLE()NECK# OR B
L4	1864040	S NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARRANG
L5	379119	S SUPPLY OR CAPACITY OR QUANTIT###
L6	590192	S (REAL OR SAME)()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR I
L7	1622	S L1 AND L3 AND L4
L8	121	S L1 AND L3 AND L4 AND L5 AND L6
L9	7	S (L1(5A)L3) AND (L4(5A)L5) AND L6
L10	4	S (L1(5A)L3)(S)(L4(5A)L6)

ANSWER 1 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN L9

2002(6):19732 ENERGY AN

Electricity 2002: The annual industry review. ΤI

Canadian Electricity Association. Montreal, PQ (Canada) CS

Montreal, PQ: Canadian Electricity Association. 2002. 34 p. Published as SO vol. 73, number 1 of the Canadian Electricity Association Annual Review. Available from the Canadian Electricity Association, 1155 Metcalfe Street, Suite 1120, Montreal, PQ, Canada. H3B 2V6. Telephone: (613) 230-9263. Fax: (613) 230-9326.

Miscellaneous; Progress Report; Availability Note DT

CY Canada

English LA

FA AB

ΑB

The annual review of the Canadian Electricity Association for 2001 reports major changes in the industry, including going from allocating equipment less than 12 months ago to trying to find outlets for excess inventory. While electricity prices were ridiculously high 12 months ago, during the past year they went to levels where generators could not make a justifiable return on their investment. Forecasters went from saying that shortages of power would soon be causing blackouts to forecasting that inefficient plants would be mothballed due to excess supply. Steps taken towards a more open and competitive marketplace progressed to a controversial debate as the California saga unfolded. And, to top it all off, there was the Enron debacle at year end. Despite these ups and downs across the continent the Canadian electrical industry continued to face growing demands for power. To generate, transmit and distribute this power the industry is in need of large amounts of capital and engineering talent in order to build the infrastructure critical to continuing to provide the level of service customers have come to expect. This must be done at the same time as other issues also demand greater attention. Environmental issues, especially climate change and global warming, are more controversial than ever. The role of regulatory authorities is under severe questioning, as many power generators operating in regulated environments find their allowed rates to be significantly below regulated rates in the United States. Ratification and implementation of the Kyoto Protocol poses many difficult challenges for the Canadian electricity industry as well as for Canada as a whole, while infrastructure protection, always a high priority, has assumed an even greater profile following September 11. These and other challenges facing the industry are discussed in a series of articles comprising this issue. Despite the difficulties and obstacles of the past year, the industry's task is clear: it must increase investment and build new capacity to supply the power required by Canadians and by Canadian industry, the latter to maintain its competitive capacity in international markets, upon which the prosperity and well being of all Canadians depend

\*S20 Fossil-fueled power plants CC

S24 Power transmission and distribution

CTELECTRIC POWER INDUSTRY; CANADA; PROGRESS REPORT .

DEVELOPED COUNTRIES; DOCUMENT TYPES; INDUSTRY; NORTH AMERICA BT

ANSWER 2 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN L9

AN2001(20):89843 ENERGY

TISubmetering: increased interest in a low-cost technology.

Millstein, D. (E-MON Corp., Langhorne, PA (United States)) ΑU

Electricity Today (Jun 2001) v. 13(6) p. 10, 12-13. SO

CODEN: ELTDER ISSN: 0843-7343

DTJournal

CY Canada

LA English AΒ

FA A

Warning signals reach Canada, indicating that the country suffers from constrained power supply in the Pacific Northwest. This situation is a result of rising electricity costs, increasing power consumption and supply unpredictability. As they undergo restructuring, several Canadian provinces are keeping an eye on the situation in California, where rolling blackouts occur and electricity prices have skyrocketed. Last year alone, electricity prices in Alberta quadrupled. The problems experienced in California are helping Canadians implement cost saving options and avoid the pitfalls of deregulation. In Ontario, electricity prices could rise by at least 20 per cent in two years, as estimated by Energy Probe, a Canadian consumer and environmental advocacy group. As a result, there is a noted increase in interest in submetering technology. This technology is cost-effective, easy to install and has a proven track record for lowering energy bills. Energy usage data is gathered and delivered real-time to facility operators, allowing proactive measures to be implemented when required. Comprehensive energy profiling is achieved through a combination of submetering equipment and software. The data is then utilized for peak shaving, load shedding, aggregation and others to lower energy bills. It displays to the energy manager the amount of energy distributed to the various departments, tenants, or processes within the building or facility. The information can be displayed either on a centralized or remote Windows-based personal computer (PC) operator interface. The system can be read anytime, from anywhere using Automatic Meter Reading (AMR). Some of the features are Demand Side Management (DSM) programs and Energy Management System (EMS) performance analyses. This information allows the manager flexibility on billing and allocation, cost center analysis, energy use verification and demand control and analysis to save money and energy. The submeters are installed after the master meter in a facility. There is no need to power down the load to install. By hooking three current sensors around the electrical feeds being measured allows electricity monitoring. Time and cost to install are approximately 25 per cent of the time and cost necessary for a utility to install a dedicated meter on the same circuit. 3 refs., 4 figs

CC \*S29 Energy planning, policy and economy

CT ELECTRIC MEASURING INSTRUMENTS; POWER METERS; ENERGY EXPENSES; ENERGY DEMAND; ENERGY MANAGEMENT SYSTEMS; DATA ANALYSIS

BT CONTROL SYSTEMS; DEMAND; ELECTRIC MEASURING INSTRUMENTS; ELECTRICAL EQUIPMENT; ENERGY SYSTEMS; EQUIPMENT; MEASURING INSTRUMENTS; METERS

- L9 ANSWER 3 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
- AN 1993(22):140890 ENERGY
- TI Energy and economic development in isolated regions: a case study.
- AU Munoz, A.; Maldonado, P. (Chile Univ., Santiago (Chile). Facultad de Ciencias Fisicas y Matematicas)
- NR CONF-920923--
- SO Renewable energy: technology and the environment. V. 5: Related topics. Proceedings.

Editor(s): Sayigh, A.A.M. (Reading Univ. (United Kingdom). Dept. of Engineering)

World Renewable Energy Co. Ltd., Reading (United Kingdom) (9051107) Oxford: Pergamon Press. 1992. p. 2639-2643 of 744 p. Conference published in 5 v.

Conference: 2. world renewable energy congress, Reading (United Kingdom), 13-18 Sep 1992

ISBN: 0 08 041278 5

- DT Book Article; Conference
- CY United Kingdom

LA English

FA AB

AB High production costs and inadequate supply of electricity are severe handicaps to economic development in remote areas. Costs are increased further by the low level and high variability of electric loads. In order to face these problems a simultaneous development of wind diesel energy resources and productive projects with demand management is proposed. This paper illustrates such a case in Southern Chile where present electricity costs are reduced as consumption is increased from 85 to 468 KWh/person/year. A new refrigeration plant increases the storage capacity for the small fishing activity and effectively uses the output of wind energy generators. (author)

CC \*290201; F1500

DEVELOPING COUNTRIES; DIESEL ENGINES; ECONOMIC DEVELOPMENT; ELECTRIC CTPOWER; REMOTE AREAS; WIND TURBINES \*WIND TURBINES: \*DIESEL ENGINES; \*DEVELOPING COUNTRIES: \*ELECTRIC POWER; \*DEVELOPING COUNTRIES: \*WIND TURBINES

BTENGINES; EQUIPMENT; HEAT ENGINES; INTERNAL COMBUSTION ENGINES; MACHINERY; POWER; TURBINES; TURBOMACHINERY

ET

ANSWER 4 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN L9

1987(10):71935 ENERGY AN

ΤI Constraints on nuclear power development in the United States.

ΑU Brandfon, W.W. (General Analytical Div., Sargent and Lundy, Engineers, Chicago) [United States]

Global energy assessment and outlook. SO Kursunoglu, B.N.; Perlmutter, A.; Scott, L. New York, NY: Harwood Academic Pub. 1984. pp. 129-130 ISBN: 3-7186-0224-5

DТ Book Article

CY United States

LA English

AB

The U.S. nuclear option appears, at this time, to be disappearing. Determinants of energy supply seem to be changing from engineering and economic factors to other considerations. Regulatory and financial constraints now appear to be dominating the guidelines for electrical energy expansion. American electric utilities, for the most part, have not been able to obtain sufficient revenues to cover their costs of production. What price increases that they are being allowed to charge their customers come too late to keep up with inflation. They require increasing quantities of outside funding in the form of debt and equity capital. This they can only obtain at record high rates, if at all. Most utilities are not even earning what their regulators have determined are fair returns. Financial problems and regulatory tangles severely affect nuclear power, despite its proven technology and environmental and economic benefits. If the United States loses the nuclear alternative, the economic consequences of limiting fuels for electric base load generation to coal only will be severe; analogous to a monopoly situation in fuel supply. It is doubtful, despite the huge resources of coal, that the coal industry can satisfy even a reduced future demand. The question then becomes whether the technological leader of the world may in the future be faced with blackouts and rationing of electricity.

CC \*290600; 290500; 293000; 292000; F1400

CT \*NUCLEAR INDUSTRY: \*CONSTRAINTS; \*NUCLEAR POWER: \*ENERGY SOURCE DEVELOPMENT; DEMAND; ECONOMICS; ENERGY MANAGEMENT; ENERGY POLICY; ENERGY SUPPLIES; FINANCING; FORECASTING; REGULATIONS; SAFETY; SUPPLY DISRUPTION BTGOVERNMENT POLICIES; INDUSTRY; MANAGEMENT; POWER

- L9 ANSWER 5 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN AN 1982(17):126141 ENERGY Energy situation of India.
- AU Ritapal, K. [Germany, Federal Republic of]
- SO Glueckauf (23 Jul 1981) v. 117(14) p. 900-904, 403-406 CODEN: GLUEAJ ISSN: 0340-7896
- DT Journal
- CY Germany, Federal Republic of
- LA German; English
- India, which as a surface area of some 3.28 m km2 and a population of AB around 650 million people, is still predominantly an agrarian country. Since development plans were introduced in 1950/51, great progress has been made in industrialization. However, there are still bottle necks in the transport, energy production and energy distribution sectors. India's development plans provide for economic growth of 4.7 to 5.5% per annum (from 1983) with different growth rates in the various sectors (agriculture: approximately 4%, mining and industry: 7%, energy: 11%, building: 10%, and transport: 6%). Developing countries have to cope at the same time with population growth, claims for a higher standard of living and the increasingly difficult problem of energy supply. Today, it is generally recognized that the energy situation in these countries cannot be treated separately from the energy supply of the industrialized nations. According to information collected by the World Bank, India's energy consumption - in relation to its gross national product - is the greatest of any of the developing countries.
- CC \*290000
- \*\* \*\*INDIA: \*\*ENERGY SUPPLIES; COMPARATIVE EVALUATIONS; DEVELOPING COUNTRIES;
  ENERGY DEMAND; ENERGY SOURCES; FORECASTING; IMPORTS; PETROLEUM;
  PRODUCTION; RESERVES; RURAL AREAS
- BT ASIA; DEMAND; DEVELOPING COUNTRIES; ENERGY SOURCES; FOSSIL FUELS; RESOURCES
- L9 ANSWER 6 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
- AN 1982(15):109327 ENERGY
- TI Supply-side approach to energy policy.
- AU Bejan, M. (Univ. of California, Berkeley); Bejan, A. [United States]
- SO Energy Policy (Jun 1982) v. 10(2) p. 153-157
- CODEN: ENPYAC
- DT Journal
- CY United Kingdom
- LA English
- DN EPA-08:003662
- AB Existing energy-policy proposals are approached from a demand-side perspective to solve the immediate problem of meeting existing demands defined by existing technologies. However, a constructive forward-looking policy requires a supply-side perspective. The purpose of energy policy is ultimately the efficient allocation of the scarce supply of available energy or exergy. The authors outline a proposal for efficient energy management. This supply-side orientation is based upon basic thermodynamic principles, thus offering a foundation for formation of consistent criteria for policy-oriented decision making. 4 figures.
- CC \*293000; 292000
- CT \*ENERGY SUPPLIES: \*ENERGY POLICY; \*ENERGY POLICY: \\*ENERGY SUPPLIES; ENERGY DEMAND; ENERGY MANAGEMENT; THERMODYNAMIC PROPERTIES; USA
- BT DEMAND; GOVERNMENT POLICIES; MANAGEMENT; NORTH AMERICA; PHYSICAL PROPERTIES
- L9 ANSWER 7 OF 7 ENTEC (C) 2003 FIZ Technik on STN
- AN 2001:0028668 ENTEC

#### STN

- TI Improved system performance by integration of adjustable speed hydro (ASH) machines.
- AU Sporild, R.; Gjerde, J.O.; Gjengedal, T.
- CS ABB Corp. Res., Billingstad (NO)
- PowerCon 2000. 2000 International Conference on Power System Technology. Proceedings (Cat. No.00EX409), 4-7 Dec. 2000, Perth, WA, Australia. Piscataway: IEEE Operations Center (www.ieee.org). 2000. p. 415-420. v. 1.

Konferenz: PowerCon 2000: 4. international conference on power system technology, Perth (AU), 4-7 Dec 2000 ISBN: 0-7803-6338-8

- DT Kapitel der Monographie; Konferenz
- LA Englisch
- FA AB
- IP FIZ Technik
- AB The main purpose of this paper is to show how the adjustable speed hydro (ASH) machine behaves with respect to transient and dynamic conditions in power systems. The ASH machine gives a contribution to increased efficiency in the penstock/turbine system as well as an improved flexibility with respect to the electrical system. By means of its quick response to network events, the ASH machine is able to obtain an increased stability margin and thereby a more safe operation of the power system. With proper location and parametrisation of power system stabilisers (PSS), the ASH machine can make considerable support to damping of large scale power oscillations in transmission networks. On the other hand, this represents new opportunities for the power producer as well as for the system operator in utilising the transmission network even better. The paper has shown that transmission lines appearing as bottlenecks with respect to power demand may increase their transfer capacity as ASH machines are introduced in the network. In turn, this may lead to a postponement of high investment costs for new overhead lines. Furthermore, the paper has given a quantification of how much the power export out of an example region can be increased due to introduction of ASH machines
- CC \*S24 Power transmission and distribution S99 General and miscellaneous
- ST DAEMPFUNG; WASSERTURBINE; WASSERKRAFTGENERATOR; SYNCHRONGENERATOR; ELEKTRISCHES NETZ (ENERGIENETZ); REGELGETRIEBE; STABILITAETSGRENZE; FREILEITUNG; KOSTEN-NUTZEN-ANALYSE; ENERGIENETZSTABILITAET; DYNAMISCHE BEDINGUNG; EINSCHWINGZUSTAND; ENERGIENETZSTABILISIERUNGSEINRICHTUNG

- L10 ANSWER 1 OF 4 ELCOM COPYRIGHT 2003 CSA on STN
- AN 1999:2066 ELCOM
- TI Adaptive speed control of a general-purpose processor based on activities
- AU Furuichi, Sanehiro; Aihara, Toru
- CS Tokyo Research Lab, Yamato-shi, Jpn
- SO IEICE TRANS ELECTRON, (19980900) vol. E81-C, no. 9, pp. 1481-1483. ISSN: 0916-8524.
- DT Journal
- FS E
- LA English
- This paper proposes a new method for dynamically controlling the clock speed of a processor in order to reduce power consumption without decreasing system performance. It automatically tunes the processor's speed by monitoring its activities and avoiding useless work so as not to exhaust the battery energy. Experiments with performance bottlenecks caused by disk activities show that the proposed method is very effective in comparison with the traditional one, in which the processor's speed is fixed.
- CC 722. Digital Computers and Systems; 731. Specific Variables Control; 713. Pulse Circuits
- UT Speed control; Timing circuits; General-purpose processors
- L10 ANSWER 2 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
- AN 1994(17):115348 ENERGY
- TI An integrated methodology for power system restoration planning.
- AU Huang Jinan
- CS McGill Univ., Montreal, PQ (Canada). Dept. of Electrical Engineering (4040100)
- SO Thesis (Ph.D.). Montreal, PQ: McGill Univ. Aug 1992. 260 p. MF Micromedia Ltd., 240 Catherine Street, Suite 305, Ottawa, Ontario, Canada K2P 2G8 \$15 CAN.
  - ISBN: 0-315-87715-4
- DT Book; Dissertation
- CY Canada
- LA English
- FA AB
- AB A study is presented of power system restoration planning. An integrated methodology is proposed for restoration planning which incorporates heuristics, algorithms, a friendly graphical user interface and databases. Heuristics provide rules for dividing the power system to be restored into subsystems to be restored independently, for selecting suitable scenarios from the scenario library, and for creating appropriate scenarios when they do not exist in the library. The optimization algorithm systematically ensures the feasibility of a defined restoration scenario as well as giving an optimum solution for all controllable variables in the sense of minimizing the number of control variable adjustments from stage to stage. The optimization algorithm reduces the duration of the restoration procedure which is a critical consideration during power blackouts. The interactive interface facilitates the creation of restoration plans directly on the dynamic diagram of the network as well as displaying simulation and optimization results. Databases contain the graphical representation of power systems and their numerical data. 106 refs., 67 figs., 32 tabs.
- CC \*240100
- CT COMPUTER CODES; EXPERT SYSTEMS; OPERATION; OUTAGES; PLANNING; POWER SYSTEMS
  - \*POWER SYSTEMS: \*EXPERT SYSTEMS; \*POWER SYSTEMS: \*OUTAGES
- BT ENERGY SYSTEMS

- L10 ANSWER 3 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
- AN 1991(13):82092 ENERGY
- TI Survey of Canadian electrical inspection authorities re service entrance upgrading practices.
- AU Bouchard, J.E
- CS Neill and Gunter Ltd., Dartmouth, NS (Canada) (9901299)
- NR CEA--444UATS; CE--03589
- Jun 1986. 24 p. Canadian Electrical Association, One Westmount Square, Suite 500, Montreal, PQ, CAN H3Z 2P9. Prices: \$75.00 NON-MEMBERS; MEMBERS: PRICES UPON REQUEST, FUNDS CAN.
- DT Report; Availability Note
- CY Canada
- LA English
- FA AB
- AΒ A typical residential electrical service entrance represents a bottleneck to increased loads such as add-on electric heating. Traditional methods of upgrading the service usually meant replacing the entire service entrance system, which is very costly. A study was undertaken to identify possible economical upgrading methods. The study included a survey of Canadian utilities and inspection authorities to examine their opinions on the proposed upgrading methods. Results of the survey are presented on questions regarding recommended maximum loads, adding additional cables in existing conduits, retrofitting of reinforcing devices to power meters, use of double-lugged meter mounting devices, power meter location, use of fuse clip clamps, wiring of panelboards, use of combination panelboards, use of live splitters, and use of load management panelboards. The acceptability of the suggested upgrading methods was very low among inspection authorities, averaging 26.5% in favor. The acceptance among utilities was 54.5%. 4 figs.
- CC \*240201
- CT CANADA; MODIFICATIONS; POWER DISTRIBUTION SYSTEMS; RESIDENTIAL SECTOR; SIRVEYS
  - \*RESIDENTIAL SECTOR: \*POWER DISTRIBUTION SYSTEMS
- BT NORTH AMERICA
- L10 ANSWER 4 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
- AN 1982(24):178231 ENERGY
- TI Recovering waste heat from operation of small industrial diesel engines.
- AU Kauffmann, W.M. [United States]
- SO Plant Eng. (15 Apr 1982) v. 36(8) p. 77-79 CODEN: PLENAV ISSN: 0032-082X
- DT Journal
- CY United States
- LA English
- AB Key elements in rapid advance of diesel engine technology are the vast improvement in fuel injection equipment and the use of turbochargers for small engines. Speeds of diesel engines have also increased and now range from 2000 to 3600 rpm. Several factors should be considered in the selection and application of diesel engines: combustion chamber design, fuel injection equipment, engine and cylinder construction, lubrication system, turbocharger, aftercooler (when used), torque/speed and fuel consumption curves, heat recovery, and operating costs. Operating costs of small industrial diesel engines must be compared with purchased power costs. The availability of onsite power also eliminates concern for blackouts or energy curtailment. The recovery of steam may be an important addition to the total available energy and affects actual operating cost.
- CC \*320304
- CT \*INDUSTRIAL PLANTS: \*DIESEL ENGINES; \*DIESEL ENGINES: \*HEAT RECOVERY;

COMBUSTION CHAMBERS; FUEL INJECTION SYSTEMS; OPERATING COST; DESIGN

	(c) :	2003 European Patent Office
File	349:PCT 1	FULLTEXT 1979-2002/UB=20031002,UT=20030925
	(c) :	2003 WIPO/Univentio
. 0 - 1-	Th ama	Description
Set		Description
S1	726015	POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES OR ENERGY
S2	16851	FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC-
	]	K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR SHORTAGE? ? OR (INSUF-
	1	FICIEN? OR INADEQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUG-
	1	H) OR SHORT)()(SUPPLY OR CAPACITY)
S3	1558930	NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARR-
	i	ANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR HA-
	1	NDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?
S4	1016327	(REAL OR SAME) () TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR
		IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)D-
		ATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU-
	j	RRENT? OR BEHIND(2W)SCENE? OR ON()FLY
S5	195	(S1(5N)S2) AND (S3(5N)S4)
S6	. 7	(S1 (5N) S2) (20N) (S3 (5N) S4)
S7	9	S5 AND IC=(H02J-000/00 OR H02J-003/00 OR G06F-017/60)
\$8	54577	S3(2W)(SUPPLY OR CAPACITY OR QUANTIT???)
S9	1	(S4 (5N) S8) (S) (S1 (5N) S2)
S10	28	· · · · · · · · · · · · · · · · · · ·
S11	27	S10 NOT (S6 OR S7 OR S9)

File 348:EUROPEAN PATENTS 1978-2003/Sep W04

6/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01117960

Auxiliary drive system for power-driven apparatus Hilfsantriebssystem fur automatisches Gerat Systeme d'entrainement auxiliaire pour un appareil automatique PATENT (CC, No, Kind, Date): EP 978755 Al 000209 (Basic)

6/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00646718

Fuel composition Kraftstoffezusammensetzung Composition de combustible

PATENT (CC, No, Kind, Date): EP 624639 A1 941117 (Basic) EP 624639 B1 980812

6/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00646707

Compositions useful as additives for lubricants and liquid fuels.

Als Zusatze fur Schmiermittel und flussige Kraftstoffe nutzliche Zusammensetzungen.

Compositions utiles comme additifs pour lubrifiants et liquides combustibles.

PATENT (CC, No, Kind, Date): EP 624638 Al 941117 (Basic)

6/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00556825

FUEL COMPOSITION.

BRENNSTOFFZUSAMMENSETZUNG. COMPOSITION DE CARBURANT.

PATENT (CC, No, Kind, Date): EP 525157 Al 930203 (Basic)

EP 525157 B1 950301 WO 9214805 920903

6/TI,PY,AZ/5 (Item 5 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00309567

A digital telephone switching system having a message switch with address translation.

Digitales Fernsprechvermittlungssystem mit einem Nachrichtenverteiler mit Adressenumsetzung.

Systeme de commutation telephonique numerique avec un distributeur de messages a transmission d'adresses.

PATENT (CC, No, Kind, Date): EP 282197 A2 880914 (Basic)

EP 282197 A3 900530 EP 282197 B1 930414

6/TI,PY,AZ/6 (Item 6 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00300347

Asynchronous multiphase switching gear. Asynchrones mehrphasiges Schaltgerat.

Appareil de commutation polyphase asynchrone.

PATENT (CC, No, Kind, Date): EP 313926 A2 890503 (Basic)

EP 313926 A3 900530

EP 313926 B1 930804

6/TI, PY, AZ/7 (Item 1 from file: 349)

DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

00217580

FUEL COMPOSITION

COMPOSITION DE CARBURANT

Publication Year: 1992

6/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

#### 00300347

Asynchronous multiphase switching gear.

Asynchrones mehrphasiges Schaltgerat.

Appareil de commutation polyphase asynchrone.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
 Armonk, N:Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:

Ross, John Michael, 8912 Karver Lane, Annandale Virginia 22003, (US) Woodworth, George Kelsey, Post Office Box 1220, Manassas Virginia 22110, (US)

# LEGAL REPRESENTATIVE:

Monig, Anton, Dipl.-Ing. (8591), IBM Deutschland Informationssysteme GmbH, Patentwesen und Urheberrecht, D-70548 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 313926 A2 890503 (Basic)

EP 313926 A3 900530 EP 313926 B1 930804

APPLICATION (CC, No, Date): EP 88116981 881013;

PRIORITY (CC, No, Date): US 113926 871027

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H02J-003/38; H02J-009/06;

ABSTRACT WORD COUNT: 139

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Upda	te Word Count
CLAIMS B (English) EPBB	F1 1706
CLAIMS B (German) EPBB	F1 835
CLAIMS B (French) EPBB	F1 1023
SPEC B (English) EPBB	F1 7612
Total word count - document A	0
Total word count - document B	11176
Total word count - documents A	+ B 11176

## ... SPECIFICATION cannot be tolerated.

The AMSG approach could reduce distribution outages caused by equipment failures for power utilities. Blackouts that have been caused by the loss of power could be handled in a very different manner that would allow alternative paths for routing power to an affected area. With

7/TI, PY, AZ/1 (Item 1 from file: 348) DIALOG(R) File 348: (c) 2003 European Patent Office. All rts. reserv.

01470120

POWER SUPPLY/DEMAND CONTROL SYSTEM LEISTUNGSVERSORGUNGS-BEDARFSREGELUNGSSYSTEM SYSTEME DE REGULATION DE DEMANDE DE COURANT ET D'ALIMENTATION EN COURANT PATENT (CC, No, Kind, Date): EP 1255340 A1 021106 (Basic) WO 2002029952 020411

7/TI, PY, AZ/2 (Item 2 from file: 348) DIALOG(R) File 348: (c) 2003 European Patent Office. All rts. reserv.

01458548

4 . . . . . Data warehouse model and methodology Modell und Methodologie fur ein Datenlagerhaus Modele de depot de donnees et methodologie PATENT (CC, No, Kind, Date): EP 1248216 A1 021009 (Basic)

(Item 3 from file: 348) 7/TI,PY,AZ/3 DIALOG(R) File 348: (c) 2003 European Patent Office. All rts. reserv.

01371168

Power amount control method and apparatus Leistungsverbrauchsteuerungsverfahren und -vorrrichtung Procede et appareil de regulation de la quantite de puissance PATENT (CC, No, Kind, Date): EP 1168563 A2 020102 (Basic)

7/TI,PY,AZ/4 (Item 4 from file: 348) DIALOG(R) File 348: (c) 2003 European Patent Office. All rts. reserv.

01071115

AUTOMATED SURVEY KIOSK and system Automatisierte Marktforschungskiosk und -system Systeme et borne informatique de sondage PATENT (CC, No, Kind, Date): EP 1046119 A2 001025 (Basic) EP 1046119 B1 030521 WO 99035600 990715

(Item 1 from file: 349) 7/TI,PY,AZ/5 DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

00911739

METHOD AND APPARATUS FOR TRADING AND MANAGING FUNGIBLE, EPHEMERAL COMMODITIES INCLUDING ELECTRICAL POWER

PROCEDE ET APPAREIL EXPLOITANT UN ORDINATEUR CLIENT EN INTERACTION AVEC UN SYSTEME MOTEUR POUR L'ECHANGE ET LA GESTION DE BIENS FONGIBLES ET EPHEMERES, DONT L'ENERGIE ELECTRIQUE

Publication Year: 2002

7/TI,PY,AZ/6 (Item 2 from file: 349) DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

00858344

METHOD AND SYSTEMS SUPPORTING TRADING OF FUNGIBLE EPHEMERAL COMMODITIES AND FUNGIBLE NON-EPHEMERAL COMMODITIES INCORPORATING TRANSMISSION CONTRACTING

PROCEDE ET SYSTEMES D'ASSISTANCE A LA NEGOCIATION DE BIENS FONGIBLES EPHEMERES ET NON EPHEMERES AVEC CONCLUSION DE CONTRATS PAR TELECOMMUNICATIONS

Publication Year: 2001

7/TI,PY,AZ/7 (Item 3 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00858335

SYSTEM FOR TRADING, SCHEDULING AND SETTLING TRANSACTIONS INVOLVING
FUNGIBLE, EPHEMERAL COMMODITIES INCLUDING POWER AND METHOD THEREFOR
PROCEDE ET APPAREIL DESTINE A UN SYSTEME DE MOTEUR SUPPORTANT DES
TRANSACTIONS, DES ORDONNANCEMENTS ET DES REGLEMENTS CONCERNANT DES
MARCHANDISES FONGIBLES ET EPHEMERES, DONT L'ENERGIE ELECTRIQUE
Publication Year: 2001

7/TI,PY,AZ/8 (Item 4 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00807674

METHOD AND APPARATUS OF MANAGING EPHEMERAL, FUNGIBLE COMMODITIES BASED UPON REAL - TIME FORWARD PRICES

PROCEDE ET APPAREIL DE GESTION DE BIENS FONGIBLES, EPHEMERES FONDES SUR LES PRIX A TERME EN TEMPS REEL

Publication Year: 2001

7/TI,PY,AZ/9 (Item 5 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00504248

AUTOMATED SURVEY KIOSK POSTE AUTOMATISE DE SONDAGE

Publication Year: 1999

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9/3,K/1
            (Item 1 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.
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#### 00343275

Circuit for controlling the power supply of an electrical load, having a device for detecting a short-circuit of the load.

Steuerschaltung fur die Energieversorgung einer elektrischen Last mit einer Erfassungsanordnung eines Kurzschlusses der Last.

Circuit de commande de l'alimentation d'une charge electrique, a dispositif de detection d'un court-circuit de la charge. PATENT ASSIGNEE:

SIEMENS AKTIENGESELLSCHAFT, (200520), Wittelsbacherplatz 2, W-8000 Munchen 2, (DE), (applicant designated states: DE; ES; GB; IT; NL; SE)

Baylac, Bruno Yves Henri, 197 rue des Fontaines, F-31300 Toulouse, (FR) Castel, Michel, 4 place des Mesanges, F-31140 Aucamville, (FR)

PATENT (CC, No, Kind, Date): EP 343536 Al 891129 (Basic) EP 343536 Bl 930317

APPLICATION (CC, No, Date): EP 89109088 890519;

PRIORITY (CC, No, Date): FR 887005 880526

DESIGNATED STATES: DE; ES; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS: H02H-003/087; H02H-001/04;

ABSTRACT WORD COUNT: 99

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: . . . . .

Available Te	xt Langu	age Upo	date Word	Count
CLAIMS	B (Engl	ish) EPE	3BF1 57	5
CLAIMS	B (Ger	man) EPF	BBF1 51	9 .
CLAIMS	B (Fre	ench) EPE	BBF1 58	0
SPEC B	(Engl	.ish) EPE	BBF1 354	7
Total word c	ount - do	cument A		0
Total word c	ount - do	cument B	522	1
Total word c	ount - do	cuments 1	A + B = 522	1

- ...SPECIFICATION example with reference to the accompanying drawing in which:
  - Figure 1 is a diagrammatic representation of a circuit for controlling the power supply of an electrical load, provided with a device for detecting a short-circuit of the...

# ...the prior art,

- Figure 2 is a diagrammatic representation of a circuit for controlling the power supply of an electrical load, provided with a device for detecting a short-circuit of the load according to...

11/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01503672

Raw fuel vaporizing apparatus, method of vaporizing raw fuel, and fuel cell system equipped with raw fuel vaporizing apparatus

Apparat zur Verdampfung von Rohbrennstoff, Verfahren zur Verdampfung von Rohbrennstoff und Brennstoffzellensystem ausgerustet mit einem solchen Apparat zur Verdampfung von Rohbrennstoff

Dispositif pour vaporiser du combustible brut, methode pour vaporiser du combustible brut et systeme de pile a combustible pourvu d'un tel dispositif pour vaporiser du combustible brut

PATENT (CC, No, Kind, Date): EP 1258935 A2 021120 (Basic)

11/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01321703

Method for controlling and synchronizing power supply in a system og electronic devices

Verfahren zur Steuerung und Synkronisierung der Stromversorgung in einem System elektronischen Geraten

Procede de commande et synchronisation du circuit d'alimentation pour appareils electroniques

PATENT (CC, No, Kind, Date): EP 1128561 A2 010829 (Basic)

11/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01311109

Time division duplex cellular communications system with dynamic slot allocation and reduced interference

Duplex-Zeitverschachtelungs-Kommunikationssystem mit dynamischer Zeitschlit zzuweisung und verminderter Storung

Systeme de communication mobile avec multiplexage temporel duplex a allocation dynamique de canaux temporels et a interference reduite PATENT (CC, No, Kind, Date): EP 1122895 Al 010808 (Basic)

11/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01198210

Method for the simultaneous modernization of a plant for ammonia production and a plant for urea production

Verfahren zur gleichzeitigen Modernisierung einer Ammoniakherstellungsanlag e und einer Harnstoffherstellungsanlage

Procede de modernisation simultanee d'une installation de production d'ammoniac et d'une installation de production d'uree

PATENT (CC, No, Kind, Date): EP 1041038 A1 001004 (Basic) EP 1041038 B1 030604

11/TI,PY,AZ/5 (Item 5 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00879276

Suspend induced by AC power disturbance

Durch eine Wechselstorung verursachter Wartezustand

Mise en attente provoquee par une perturbation de l'alimentation en courant alternatif

PATENT (CC, No, Kind, Date): EP 805386 A1 971105 (Basic)

11/TI,PY,AZ/6 (Item 6 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00806019

Method and apparatus for suspend/resume operation in a computer Verfahren und Vorrichtung fur Halt-/Fortsetzungsfunktion in einem Rechner Procede et dispositif pour fonction d'arret/reprise dans un ordinateur PATENT (CC, No, Kind, Date): EP 749063 A2 961218 (Basic) EP 749063 A3 990113

11/TI,PY,AZ/7 (Item 7 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00765196

CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM STEUERUNG DER UBERGANGE DER LEISTUNGSVERWALTUNGSZUSTANDE IN EINEM RECHNERSYSTEM

COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN SYSTEME INFORMATIQUE

PATENT (CC, No, Kind, Date): EP 780001 A1 970625 (Basic) EP 780001 B1 991229 WO 9607964 960314

11/TI,PY,AZ/8 (Item 8 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00765195

PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT DURCHFUHRUNG VON SYSTEMAUFGABEN BEI STROMABSCHALTUNG DURCH VERWENDUNG VON SYSTEMVERWALTUNGSUNTERBRECHUNG

REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME

PATENT (CC, No, Kind, Date): EP 780000 A1 970625 (Basic) EP 780000 B1 991229 WO 9607963 960314

11/TI,PY,AZ/9 (Item 9 from file: 348)
DIALOG(R) File 348:(c) 2003 European Patent Office. All rts. reserv.

00742571

A power management system for providing suspend/resume capability in a computer system

Ein Leistungssteuerprozessorsystem, um Halt/Wiederaufnahmefunktion in einem Rechnersystem zur Verfugung zu stellen

Systeme de gestion d'alimentation fournissant une possibilite d'arret/reprise

PATENT (CC, No, Kind, Date): EP 701192 A1 960313 (Basic) EP 701192 B1 001122

11/TI,PY,AZ/10 (Item 10 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742570

A computer system with a ring detection facility to initiate a system wakeup procedure

Rechnersystem mit Klingelfeststelleinrichtung, um Systemaufwachverfahren einzuleiten

Systeme d'ordinateur avec moyen de detection de sonnerie pour demarrer une procedure de reveil du systeme

PATENT (CC, No, Kind, Date): EP 701195 Al 960313 (Basic) EP 701195 Bl 011031 11/TI,PY,AZ/11 (Item 11 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv

00742569

Power management processor for computer systems having suspend/resume capability

Leistungssteuerprozessor fur Rechnersystem mit Halt/Wiederaufnahmefunktion-Fahigkeit

Processeur de gestion d'alimentation pour systemes d'ordinateur ayant des possibilites d'arret/reprise

PATENT (CC, No, Kind, Date): EP 701194 A1 960313 (Basic)
EP 701194 B1 011024

11/TI,PY,AZ/12 (Item 12 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00469739

High efficiency centrifugal decorticator of oil grains.

Hocheffiziente Zentrifugalschalmaschine fur Olsaaten.

Decortiqueuse centrifuge a haut rendement.

PATENT (CC, No, Kind, Date): EP 476594 Al 920325 (Basic)

11/TI,PY,AZ/13 (Item 13 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00319745

Intermediate potential generation circuit for generating a potential intermediate between a power source potential and ground potential.

Schaltung zur Erzeugung einer Zwischenspannung zwischen einer Versorgungsspannung und einer Erdspannung.

Circuit generateur d'un potentiel intermediaire entre un potentiel d'alimentation et un potentiel de masse.

PATENT (CC, No, Kind, Date): EP 321226 Al 890621 (Basic) EP 321226 Bl 930616

11/TI,PY,AZ/14 (Item 14 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00292080

Augmented air supply for fuel cells power plant during transient load increases.

Erhohte Luftzufuhr fur eine Brennstoffzellenkraftanlage wahrend vorubergehender Belastungserhohungen.

Augmentation de l'alimentation en air des generateurs de piles lors des augmentations de charges transitoires.

PATENT (CC, No, Kind, Date): EP 293007 A2 881130 (Basic)

EP 293007 A3 890816 EP 293007 B1 930127 11/TI,PY,AZ/15 (Item 1 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

01028971.

WIRELESS CELLULAR NETWORK ARCHITECTURE ARCHITECTURE DE RESEAU CELLULAIRE SANS FIL

Publication Year: 2003

11/TI,PY,AZ/16 (Item 2 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

. . ..

. . . . . .

00995742

SYSTEM AND METHOD FOR PERFORMING POWER MANAGEMENT ON A DISTRIBUTED SYSTEM SYSTEME ET PROCEDE POUR OPERER UNE GESTION D'ENERGIE SUR UN SYSTEME DISTRIBUE

Publication Year: 2003

11/TI,PY,AZ/17 (Item 3 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00967822

LOW-POWER, DIFFERENTIAL OPTICAL RECEIVER IN SILICON ON INSULATOR RECEPTEUR OPTIQUE DIFFERENTIEL DE FAIBLE PUISSANCE SILICIUM SUR ISOLANT Publication Year: 2002

11/TI,PY,AZ/18 (Item 4 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00952047

IN SITU RECOVERY FROM A OIL SHALE FORMATION RECUPERATION D'HUILE IN SITU A PARTIR D'UNE FORMATION DE SCHISTE BITUMINEUX Publication Year: 2002

11/TI,PY,AZ/19 (Item 5 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00908356

PRIORITY CAR SORTING IN RAILROAD CLASSIFICATION YARDS USING A CONTINUOUS MULTI-STAGE METHOD

TRIAGE DE VOITURES PRIORITAIRES DANS LES GARES A FAISCEAU DE TRIAGE AU MOYEN D'UN PROCESSUS MULTI-ETAPES CONTINU
Publication Year: 2002

11/TI,PY,AZ/20 (Item 6 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00899532

METHODS AND APPARATUS FOR FORMULATION, INITIAL PUBLIC OR PRIVATE OFFERING, AND SECONDARY MARKET TRADING OF RISK MANAGEMENT CONTRACTS

4 4 4 4 4

PROCEDES ET SYSTEME POUR LA FORMULATION DE PREMIERES OFFRES PUBLIQUES OU PRIVEES ET LA NEGOCIATION DE MARCHE SECONDAIRE POUR DES CONTRATS DE GESTION DE RISQUES

Publication Year: 2002

11/TI,PY,AZ/21 (Item 7 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00840236

CONCURRENT MULTI-BAND LOW NOISE AMPLIFIER ARCHITECTURE ARCHITECTURE D'AMPLIFICATEUR A FAIBLE BRUIT MULTIBANDE CONCURRENT Publication Year: 2001

11/TI,PY,AZ/22 (Item 8 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00784140

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A GLOBALLY ADDRESSABLE INTERFACE IN A COMMUNICATION SERVICES PATTERNS ENVIRONMENT

SYSTEME, PROCEDE ET ARTICLE DE FABRICATION S'APPLIQUANT DANS UN ENVIRONNEMENT DE STRUCTURE DE SERVICES DE COMMUNICATIONS VIA UNE INTERFACE ADRESSABLE GLOBALEMENT

Publication Year: 2001

11/TI,PY,AZ/23 (Item 9 from file: 349)

DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

00749027

UNIVERSAL SYNCHRONOUS NETWORK SYSTEM FOR INTERNET PROCESSOR AND WEB OPERATING ENVIRONMENT

SYSTEME DE RESEAU SYNCHRONE UNIVERSEL POUR PROCESSEUR INTERNET ET ENVIRONNEMENT DE FONCTIONNEMENT INTERNET

Publication Year: 2000

11/TI, PY, AZ/24 (Item 10 from file: 349)

DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

.

00736340

WDM TRANSMITTER

EMETTEUR MRL

Publication Year: 2000

11/TI, PY, AZ/25 (Item 11 from file: 349)

DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00557366

GAS TURBINE ENGINE

TURBOMACHINE

Publication Year: 2000

11/TI,PY,AZ/26 (Item 12 from file: 349)

DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

00325456

CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN SYSTEME INFORMATIQUE

Publication Year: 1996

11/TI,PY,AZ/27 (Item 13 from file: 349)

DIALOG(R) File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00325455

PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME

Publication Year: 1996

11/3, K/5(Item 5 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS (c) 2003 European Patent Office. All rts. reserv. 00879276 Suspend induced by AC power disturbance Durch eine Wechselstorung verursachter Wartezustand Mise en attente provoquee par une perturbation de l'alimentation en courant alternatif PATENT ASSIGNEE: INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY 10504, (US), (applicant designated states: DE; FR; GB) INVENTOR: Benson IV, Paul Harrison, 3300 Coblestone Court, Raleigh, North Carolina 27613, (US) Clark, Michael William, 612 Lafayette Drive, Hillsborough, North Carolina Heaney, James Alfred, 7 Placid Ct., Durham, North Carolina 27713, (US) Norris, Duane Edward, 4321 Dutch Garden Court, Raleigh, North Carolina 27613, (US) LEGAL REPRESENTATIVE: Zerbi, Guido Maria (77893), Intellectual Property Department, IBM United Kingdom Ltd., Hursley Park, Winchester, Hampshire SO21 2JN, (GB) PATENT (CC, No, Kind, Date): EP 805386 A1 971105 (Basic) APPLICATION (CC, No, Date): EP 97302457 970410; PRIORITY (CC, No, Date): US 639638 960429 DESIGNATED STATES: DE; FR; GB INTERNATIONAL PATENT CLASS: G06F-001/30; ABSTRACT WORD COUNT: 165 LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) 9710W5 2345 SPEC A (English) 9710W5 20937 Total word count - document A 23282 Total word count - document B Total word count - documents A + B 23282 ... SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is now controlling the power supply 17. To use this backup option, the user must press the button 21 for a... (Item 7 from file: 348) 11/3, K/7DIALOG(R) File 348: EUROPEAN PATENTS (c) 2003 European Patent Office. All rts. reserv. 00765196. CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM STEUERUNG DER **UBERGANGE** DER LEISTUNGSVERWALTUNGSZUSTANDE IN EINEM RECHNERSYSTEM COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN

SYSTEME INFORMATIQUE

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (Proprietor designated states: all) INVENTOR:

CRUMP, Dwayne, Thomas, 538 Woodbine Road, Lexington, KY 40503, (US) PANCOAST, Steven, Taylor, 3325 Pastern Court, Lexington, KY 40513, (US) NORRIS, Duane, Edward, Apartment 2049 305 Lindenhurst Drive, Lexington, KY 40509, (US)

BENSON IV, Paul, Harrison, 310 Cochran Road, Lexington, KY 40502, (US) LEGAL REPRESENTATIVE:

Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual

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PATENT (CC, No, Kind, Date): EP 780001 A1 970625 (Basic)
                              EP 780001 B1 991229
                              WO 9607964 960314
APPLICATION (CC, No, Date):
                              EP 95930601 950831; WO 95GB2055 950831
PRIORITY (CC, No, Date): US 302147 940907
DESIGNATED STATES: BE; DE; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: G06F-001/30
NOTE:
 No A-document published by EPO.
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                    Word Count
     CLAIMS B (English) 199952
                                       735
                          199952
      CLAIMS B
               (German)
                                       637
      CLAIMS B
                (French)
                          199952
                                       856
      SPEC B
                (English) 199952
                                     36174
Total word count - document A
                                        0
Total word count - document B
                                     38402
Total word count - documents A + B
                                     38402
... SPECIFICATION the user can finally release the switch 21 with the
 knowledge that the microcontroller is now controlling the power
  supply 17. To use this backup option, the user must press the button 21
  for a...
 11/3, K/8
              (Item 8 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.
00765195
PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT
DURCHFUHRUNG VON SYSTEMAUFGABEN BEI STROMABSCHALTUNG DURCH VERWENDUNG VON
    SYSTEMVERWALTUNGSUNTERBRECHUNG
REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE
   L'INTERRUPTION DE GESTION DE SYSTEME
PATENT ASSIGNEE:
  International Business Machines Corporation, (200120), Old Orchard Road,
    Armonk, N.Y. 10504, (US), (Proprietor designated states: all)
INVENTOR:
  CRUMP, Dwayne, Thomas, 538 Woodbine Road, Lexington, KY 40503, (US)
  PANCOAST, Steven, Taylor, 3325 Pastern Court, Lexington, KY 40513, (US)
  LANDRY, John, Matthew, 1344 Corona Drive, Lexington, KY 40514, (US)
  BENSON, Paul, Harrison, IV, 310 Cochran Road, Lexington, KY 40502, (US)
LEGAL REPRESENTATIVE:
  Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual
    Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 780000 A1 970625 (Basic)
                              EP 780000 B1 991229
                            .. WO .9607963 960314
                              EP 95930600 950831; WO 95GB2054 950831
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 301464 940907
DESIGNATED STATES: BE; DE; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: G06F-001/30
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                                     Word Count
                           Update
      CLAIMS B
               (English)
                           199952
                                       776
      CLAIMS B
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                 (French)
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                                       908
                (English)
      SPEC B
                           199952
                                     35542
Total word count - document A
Total word count - document B
                                     37865
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Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

...SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is now controlling the power supply 17. To use this backup option, the user must press the button 21 for a... 11/3,K/24 (Item 10 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2003 WIPO/Univentio. All rts. reserv. \*\*Image available\*\* WDM TRANSMITTER EMETTEUR MRL Patent Applicant/Assignee: UNIVERSITY OF SOUTHAMPTON, Highfield, Southampton, Hampshire SO17 1BJ, GB GB (Residence), GB (Nationality), (For all designated states except: Patent Applicant/Inventor: PAYNE David Neil, 13 Sylvan Lane, Hamble, Hampshire SO3 5QG, GB, GB (Residence), GB (Nationality), (Designated only for: US) ZERVAS Michael Nickolaos, 3 Clifford Dibben Mews, Avenue Road, Southampton, Hampshire SO14 OTP, GB, GB (Residence), GR (Nationality), (Designated only for: US) IBSEN Morten, 10 Summit Way, Southampton, Hampshire SO18 4ST, GB, GB (Residence), DK (Nationality), (Designated only for: US) Legal Representative: HAINES Miles John, D. Young & Co., 21 New Fetter Lane, London EC4A 1DA, Patent and Priority Information (Country Number Date):
Patent: WO 200049687 A1 20000824 (WO 0049687) WO 2000GB583 20000218 (PCT/WO GB0000583) Application: Priority Application: GB 993880 19990219 Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG (AP) GH GM KE LS MW SD SL SZ TZ UG ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English Fulltext Word Count: 5292 Fulltext Availability: Detailed Description Detailed Description

... is such that wavelength division multiplexing (WDM) of optical channels is required to overcome the bottleneck in capacity which arises in time-divisionmultiplexed (TDM), single-wavelength systems due to speed limitations of electronic circuits. State-of-the-art commercial systems use up to sixteen simultaneous channels 1 5 to increase system capacity but the demand for capacity will continue to increase.

Although the capacity of the third...

11/3, K/27(Item 13 from file: 349) DIALOG(R) File 349:PCT FULLTEXT (c) 2003 WIPO/Univentio. All rts. reserv.

PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT

## REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,

IBM UNITED KINGDOM LIMITED,

Inventor(s):

CRUMP Dwayne Thomas,

PANCOAST Steven Taylor,

LANDRY John Matthew,

BENSON Paul Harrison IV,

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9607963 A1 19960314

Application:

WO 95GB2054 19950831 (PCT/WO GB9502054)

Priority Application: US 94301464 19940907

Designated States: CZ HU PL RU AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT

Publication Language: English Fulltext Word Count: 37686

Fulltext Availability: Detailed Description

Detailed Description

... the user can finally release tile switch 21 with the knowledge that tile microcontroller is now controlling the power supply 17.

To ivie this brickup option, the user must press the button 21 for a...

EKD October 6, 2003

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(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200363
         (c) 2003 Thomson Derwent
File 35:Dissertation Abs Online 1861-2003/Sep
         (c) 2003 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
     65:Inside Conferences 1993-2003/Oct W1
         (c) 2003 BLDSC all rts. reserv.
       2:INSPEC 1969-2003/Sep W4
File
         (c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
File 474:New York Times Abs 1969-2003/Oct 03
        (c) 2003 The New York Times
File 475: Wall Street Journal Abs 1973-2003/Oct 03
         (c) 2003 The New York Times
     99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
         (c) 2003 The HW Wilson Co.
     95:TEME-Technology & Management 1989-2003/Sep W3
File
         (c) 2003 FIZ TECHNIK
File 15:ABI/Inform(R) 1971-2003/Oct 04
         (c) 2003 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2003/Oct 03
File
         (c) 2003 Resp. DB Svcs.
File 610:Business Wire 1999-2003/Oct 06
         (c) 2003 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 275:Gale Group Computer DB(TM) 1983-2003/Oct 03
         (c) 2003 The Gale Group
File 476: Financial Times Fulltext 1982-2003/Oct 06
         (c) 2003 Financial Times Ltd
File 624:McGraw-Hill Publications 1985-2003/Oct 03
         (c) 2003 McGraw-Hill Co. Inc
File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 03
         (c) 2003 The Gale Group
File 621:Gale Group New Prod.Annou. (R) 1985-2003/Oct 06
         (c) 2003 The Gale Group
File 613:PR Newswire 1999-2003/Oct 06
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
      16:Gale Group PROMT(R) 1990-2003/Oct 03
         (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 634:San Jose Mercury Jun 1985-2003/Oct 04
         (c) 2003 San Jose Mercury News
File 148:Gale Group Trade & Industry DB 1976-2003/Oct 06
         (c)2003 The Gale Group
File 20:Dialog Global Reporter 1997-2003/Oct 06
         (c) 2003 The Dialog Corp.
File 995:NewsRoom 2000
         (c) 2003 The Dialog Corporation
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                AU='CAZALET E G'
S1
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S2
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S3
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S4
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                AU='STREMEL, JOHN' OR AU='STREMEL, JOHN P'
                AU='TENEV T':AU='TENEV TICHOMIR G' OR AU='TENEV, T.':AU='T-
S5
           42
            ENEV, TIHOMIR'
                (S1 OR S2 OR S3 OR S4 OR S5) AND POWER
S6
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File 347: JAPIO Oct 1976-2003/May(Updated 030902)

(Item 1 from file: 350) 6/5/1 DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 015015655 WPI Acc No: 2003-076172/200307 Related WPI Acc No: 2001-335620; 2001-580917; 2001-580918; 2002-049656; 2002-089942; 2002-434191 XRPX Acc No: N03-059020 Process for bundling and trading energy and transmission rights searches continuously for ways to disassemble sale bundles into component elements of rights Patent Assignee: SAMUELSON R (SAMU-I); AUTOMATED POWER EXCHANGE INC (AUTO-N) Inventor: SAMUELSON R ; TENEV T Number of Countries: 092 Number of Patents: 003 Patent Family: Kind Kind Date Applicat No Date Patent No 20021227 WO 2002US15719 20020515 200307 B WO 2002103465 A2 Α 20030227 WO 2002US23762 20020726 200316 WO 200317030 A2 Α US 20030055776 A1 20030320 US 2001291218 P 20010515 200327 US 2001932694 Α 20010816 US 2002146511 Α 20020514 Priority Applications (No Type Date): US 2002146511 A 20020514; US 2001291218 P 20010515; US 2001932694 A 20010816 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 2002103465 A2 E 266 G06F-000/00 Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW WO 200317030 A2 E G06F-000/00 Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE

SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB

GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20030055776 A1 G06F-017/60 Provisional application US 2001291218

CIP of application US 2001932694

Abstract (Basic): WO 2002103465 A2

NOVELTY - Method consists in accepting participant offers to sell complete bundles of energy and transmission rights, allowing participants to enter bids, disassembling and re-assembling the sale bundles by a continuous search contracting orders for bid and sale bundles if aggregate bids exceed aggregate offers. A price quote is generated for a point-to-point transmission right for a participant on demand, if component elements are not needed by any bid bundles they are returned to the owner, and a price quote for energy at a particular location for a participant is generated on demand.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for an apparatus for bundling and trading energy and transmission rights.

USE - Method is for trading, operational scheduling and settling transactions of grid electrical  $\ power$  .

ADVANTAGE - Method allows participants to obtain accurate ex ante quotes for energy and transmission rights.

DESCRIPTION OF DRAWING(S) - The figure shows certified clients controlling means for using a transaction system.

pp; 266 DwgNo 2a/51

Title Terms: PROCESS; BUNDLE; TRADE; ENERGY; TRANSMISSION; SEARCH;

CONTINUOUS; WAY; DISASSEMBLE; SALE; BUNDLE; COMPONENT; ELEMENT

Derwent Class: T01

International Patent Class (Main): G06F-000/00; G06F-017/60

File Segment: EPI

6/5/2 (Item 2 from file: 350)
DIALOG(R) File 350: Derwent WPIX

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014659355 \*\*Image available\*\*
WPI Acc No: 2002-480059/200251

XRPX Acc No: N02-379105

Method of operating client computer including market engine, scheduling engine and settlement engine by receiving credit message based upon at least one member of collection comprising commitment and invoice

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: CAZALET E G ; SAMUELSON R ; STREMEL J; TENEV T

Number of Countries: 094 Number of Patents: 002

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200244853 A2 20020606 WO 2001US44842 A 20011115 200251 E AU 200237688 A 20020611 AU 200237688 A 20011115 200264

Priority Applications (No Type Date): US 2000724650 A 20001128 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200244853 A2 E 187 G06F-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW AU 200237688 A G06F-000/00 Based on patent WO 200244853

Abstract (Basic): WO 200244853 A2

NOVELTY - A production schedule involves at least one of the fungible, ephemeral commodities in at least one of the market intervals to create the authenticated received message. An invoice regarding the commodities may create the authenticated received message. A credit message is based upon at least one member of the collection comprising the commitment and the invoice to create the authenticated received message.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for:

(a) a client system supporting at least one certified client transaction regarding market intervals

USE - For operating a client computer for trading, operational scheduling, and settling transactions involving ephemeral, fungible commodities with regards to trading electrical **power** as applied to grids of one or more AC **power** networks.

ADVANTAGE - Optimizes the scheduling, congestion management, ancillary services, metering, billing and settlements of accounts for electrical grids. Complies with the physics of AC power networks. Trades generation and transmission rights in a timely, reliable and efficient manner which automatically guarantees correct operation of the power grid. Provides not only trading in futures, but also ancillary services and various attributes of the traded commodities.

DESCRIPTION OF DRAWING(S) - The drawing shows a detailed flowchart performing receiving an authentication message according to the present invention.

pp; 187 DwgNo 29/45

Title Terms: METHOD; OPERATE; CLIENT; COMPUTER; MARKET; ENGINE; SCHEDULE; ENGINE; SETTLE; ENGINE; RECEIVE; CREDIT; MESSAGE; BASED; ONE; MEMBER; COLLECT; COMPRISE; INVOICING
Derwent Class: T01

International Patent Class (Main): G06F-000/00

File Segment: EPI

6/5/3 (Item 3 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014269244 \*\*Image available\*\*

WPI Acc No: 2002-089942/200212

Related WPI Acc No: 2001-335620; 2001-580917; 2001-580918; 2002-049656;

2002-434191; 2003-076172

XRPX Acc No: N02-066247

Computing system for operational scheduling and trading of electrical

power as applied to grids of AC power networks.

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: CAZALET E G ; SAMUELSON R ; STREMEL J; TENEV T

Number of Countries: 091 Number of Patents: 002

Patent Family:

Date Applicat No Kind Date Patent No Kind Week WO 200190996 A2 20011129 WO 2001US15858 20010516 200212 Α AU 200163198 A 20011203 AU 200163198 Α 20010516 200221

Priority Applications (No Type Date): US 2000613685 A 20000711; US 2000206852 P 20000523

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200190996 A2 E 201 G06F-017/60

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200163198 A G06F-017/60 Based on patent WO 200190996

Abstract (Basic): WO 200190996 A2

NOVELTY - The computing system supports transactions involving ephemeral commodities such as electrical **power** and its transmission, and trading such commodities to create commitments, scheduling, and settling the commitments. The system includes a market engine that supports a virtual trading floor and external market trading by certified clients of the system.

DETAILED DESCRIPTION - An independent claim is included for a method of interacting with clients.

USE - To integrate trading activities and scheduling for certified clients.

ADVANTAGE - Upgrades of one component do not affect the integrity of other components.

 ${\tt DESCRIPTION\ OF\ DRAWING(S)\ -\ Flow\ chart\ showing\ interaction\ between\ clients}$ 

pp; 201 DwgNo 1A/29

Title Terms: COMPUTATION; SYSTEM; OPERATE; SCHEDULE; TRADE; ELECTRIC;

POWER; APPLY; GRID; AC; POWER; NETWORK

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014096704 \*\*Image available\*\*

WPI Acc No: 2001-580918/200165

Related WPI Acc No: 2001-335620; 2001-580917; 2002-049656; 2002-089942;

2002-434191; 2003-076172 XRPX Acc No: N01-432692

Method of planning device for trading and traded electrical power as applied to grids of one or more AC power networks by examining knowledge interval collection based upon ephemeral, fungible commodity needs over planning interval

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: CAZALET E G ; TENEV T

Number of Countries: 091 Number of Patents: 005

Patent Family:

Week Applicat No Kind Date Patent No Kind Date A1 20010607 WO 2000US30712 A 20001107 200165 WO 200141280 20010612 AU 200113633 20001107 200165 AU 200113633 Α Α 20001107 200263 20020731 WO 2000US30712 A NO 200202595 Α Α NO 20022595 20020531 Α 20020828 EP 2000975612 20001107 200264 EP 1234369 A1 WO 2000US30712 A 20001107 JP 2003521025 W 20030708 WO 2000US30712 A 20001107 200347 JP 2001542441 A 20001107

Priority Applications (No Type Date): US 2000613685 A 20000711; US 99168478 P 19991201

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200141280 A1 E 179 H02J-003/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200113633 A H02J-003/00 Based on patent WO 200141280

NO 200202595 A H02J-000/00

EP 1234369 A1 E H02J-003/00 Based on patent WO 200141280
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

JP 2003521025 W 192 G06F-019/00 Based on patent WO 200141280

### Abstract (Basic): WO 200141280 A1

NOVELTY - The method involves determining the ephemeral, fungible commodity needs over a planning time interval. The knowledge interval collection is examined based upon the ephemeral, fungible commodity needs over the planning time interval to create a device operating schedule. A first knowledge interval of the ephemeral, fungible commodity may be created at a first time interval containing a first cost in the knowledge interval collection.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

- (a) a program operating system supporting claimed method
- (b) a computing system supporting claimed method

(c) a control system controlling a device consuming an ephemeral fungible commodity based upon a knowledge interval collection

USE - For planning and managing the operation of devices using ephemeral, fungible commodities with regards to trading and traded electrical power as applied to grids of one or more AC power networks.

ADVANTAGE - Allows to meter usage and cost of such devices under operation based upon the time variations in the economics. Optimizes the scheduling, congestion management, ancillary services, metering, billing and settlements of accounts for electrical grids, complies with the physics of AC power networks. Controls the devices based upon trading generation and transmission rights in a timely, reliable and efficient manner, which automatically guarantees correct operation of the power grid.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of a method of planing device according to the present invention.

pp; 179 DwgNo 4a/40

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Title Terms: METHOD; PLAN; DEVICE; TRADE; ELECTRIC; POWER; APPLY; GRID;
 ONE; MORE; AC; POWER; NETWORK; INTERVAL; COLLECT; BASED; FUNGIBLE;
 COMMODITY; NEED; PLAN; INTERVAL
Derwent Class: T01; X12
International Patent Class (Main): G06F-019/00; H02J-000/00; H02J-003/00
International Patent Class (Additional): G06F-017/60; H02J-003/14;
 H02J-003/46
File Segment: EPI
           (Item 5 from file: 350)
 6/5/5
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
            **Image available**
014096703
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942;
  2002-434191; 2003-076172
XRPX Acc No: N01-432691
  System for managing AC power networks based on flow-gate market
  transactions by contracting power transfer on each flow gate of the
  gate collection
Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G ; FU C; SAMUELSON R ; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:
Patent No
             Kind
                    Date
                             Applicát No
                                           Kind
                                                  Date
                                                           Week
             A1 20010607 WO 2000US22487 A
                                                 20000816
WO 200141279
                                                          200165
                                                 20000816
AU 200067781
              Α
                   20010612
                            AU 200067781
                                            Α
                                                          200165
                            WO 2000US22487
                                                 20000816
NO 200202555
              Α
                   20020717
                                            Α
                             NO 20022555
                                                 20020529
                                            Α
EP 1234368
              A1 20020828
                            EP 2000955602
                                            Α
                                                 20000816
                                                          200264
                             WO 2000US22487 A
                                                 20000816
Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213
  P 19991130; US 99163213 P 19991130
Patent Details:
Patent No Kind Lan Pg Main IPC
                                     Filing Notes
WO 200141279 A1 E 99 H02J-003/00
   Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
   CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
   SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
                      H02J-003/00
                                     Based on patent WO 200141279
AU 200067781 A
                      H02J-000/00
NO 200202555 A
                      H02J-003/00
                                    Based on patent WO 200141279
EP 1234368
             A1 E
   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI
Abstract (Basic): WO 200141279 A1
        NOVELTY - A flow of execution (1060) for a starting operation
    (1022) goes to an operation (1062), performing contracting of the
    associated AC power transfer on each of the flow gates of the flow
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gate collection, to take place over at least a first time interval, while the execution (1064) for operation (1062) flows to an operation (1060), terminating the operation of the flow chart. The operations are supported by a program code segment recording in a computer memory.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for a method for contracting AC power transfer on an AC power network and for a computer system supporting program.

USE - Controlling AC electrical power transfer in a frequency controlled AC power network.

ADVANTAGE - Trading transfer rights in a timely, reliable and efficient manner.

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DESCRIPTION OF DRAWING(S) - The drawing shows operation of the flow transfer over a first time interval.

pp; 99 DwgNo 6/36

Title Terms: SYSTEM; MANAGE; AC; POWER; NETWORK; BASED; FLOW; GATE;

MARKET; TRANSACTION; CONTRACT; POWER; TRANSFER; FLOW; GATE; GATE;

COLLECT

Derwent Class: T01; X12

International Patent Class (Main): H02J-000/00; H02J-003/00

International Patent Class (Additional): G06F-017/60

File Segment: EPI
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File Segment: EPI
6/5/6
           (Item 6 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
013851407
            **Image available**
WPI Acc No: 2001-335620/200135
Related WPI Acc No: 2001-580917; 2001-580918; 2002-049656; 2002-089942;
  2002-434191; 2003-076172
XRPX Acc No: N01-242299
  Trading method for ephemeral, fungible commodities of electrical power
  grid comprising AC power network, to provide virtual trading floor for
  trading fungible, ephemeral commodities including electrical energy
Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G ; TENEV T
Number of Countries: 091 Number of Patents: 005
Patent Family:
Patent No
             Kind
                    Date
                             Applicat No
                                            Kind
                                                   Date
                                                            Week
              A1 20010419
                            WO 2000US22489 A
                                                 20000816
WO 200128063
                                                           200135
                                                 20000816
AU 200067782
              Α
                   20010423
                            AU 200067782
                                             Α
                                                           200147
NO 200201628
              Α
                   20020605
                            WO 2000US22489
                                            Α
                                                 20000816
                                                           200250
                             NO 20021628
                                                 20020405
                                             Α
                  20020703
                             EP 2000955603
                                                 20000816
EP 1218999
              A1
                                             Α
                                                           200251
                             WO 2000US22489
                                                 20000816
                                            Α
JP 2003525005 W
                   20030819
                             WO 2000US22489 A
                                                 20000816
                                                           200356
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Priority Applications (No Type Date): US 2000564415 A 20000502; US 99158603 P 19991008

Α

20000816

JP 2001530175

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200128063 A1 E 100 H02J-003/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200067782 A H02J-003/00 Based on patent WO 200128063

NO 200201628 A H02J-000/00

EP 1218999 A1 E H02J-003/00 Based on patent WO 200128063

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2003525005 W 113 H02J-003/00 Based on patent WO 200128063

Abstract (Basic): WO 200128063 A1

NOVELTY - The method involves maintaining market a market interval collection of market intervals, and maintaining a validated order collection of validated orders, each with an associated market interval.

DETAILED DESCRIPTION - The method involves trading ephemeral, fungible commodities of an electrical **power** grid containing at least one AC **power** network each containing a node collection of at least two nodes. The method involves maintaining a market interval collection of market intervals, and maintaining a validated order collection of

validated orders, each within an associated market interval. Each market interval contains a product type, location and at least one time interval. INDEPENDENT CLAIMS are included for; a program operating system composed of program code segments for supporting a method for trading for ephemeral, fungible commodities of electrical power grid comprising AC power network. USE - Virtual trading floor for trading fungible, ephemeral commodities including electrical energy. ADVANTAGE - Allows for complex orders to be processed, such that energy may be ordered along with the transmission rights for that DESCRIPTION OF DRAWING(S) - The drawing shows a virtual trading floor containing validated orders and market intervals with associated

market states in accordance with the invention.

Virtual trading floor (100) Market states (1102, 1122, 1142, 1162) Market intervals (1100, 1200, 1140, 1160) Validated order (1200, 1210, 1220, 1230, 1240, 1250) pp; 100 DwgNo 3/25

Title Terms: TRADE; METHOD; FUNGIBLE; COMMODITY; ELECTRIC; POWER; GRID; COMPRISE; AC; POWER; NETWORK; VIRTUAL; TRADE; FLOOR; TRADE; FUNGIBLE; COMMODITY; ELECTRIC; ENERGY

Derwent Class: T01; X12

International Patent Class (Main): H02J-000/00; H02J-003/00

International Patent Class (Additional): G06F-017/60

File Segment: EPI

(Item 1 from file: 2) 6/5/7 DIALOG(R) File 2: INSPEC

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INSPEC Abstract Number: C9801-6130B-018 Title: Managing multiple focal levels in Table Lens

Author(s): Tenev, T.; Rao, R.

Author Affiliation: Xerox Palo Alto Res. Center, CA, USA

Title: Proceedings. IEEE Symposium on Information Conference Visualization (Cat. No.97TB100195) p.59-63, 122

Editor(s): Dill, J.; Gershon, N.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1997 Country of Publication: USA xvi+127 pp.

ISBN: 0 8186 8189 6 Material Identity Number: XX97-02762

U.S. Copyright Clearance Center Code: 0 8186 8189 6/97/\$10.00

Conference Title: Proceedings of VIZ '97: Visualization Conference,

Information Visualization Symposium and Parallel Rendering Symposium

Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Comput. Graphics Conference Date: 20-21 Oct. 1997 Conference Location: Phoenix, AZ, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

The Table Lens, focus+context visualization for large data tables, allows users to see 100 times as many data values as a spreadsheet same screen space in a manner that enables an extremely immediate form of exploratory data analysis. In the original Table Lens design, data are shown in the context area using graphical representations in a single pixel row. Scaling up the Table Lens technique beyond approximately 500 (rows) by 40 variables (columns) requires not showing every value individually and thus raises challenges for preserving the exploratory and navigational ease and power of the original design. We describe two design enhancements for introducing regions of less than a pixel row for each data value and discuss the issues raised by each.

Subfile: C

Descriptors: data analysis; data visualisation; user interfaces; very large databases

Identifiers: multiple focal level management; Table Lens; focus visualization; context visualization; large data tables; data values; spreadsheet; screen space; exploratory data analysis; graphical

representations; single pixel row; design enhancements; user interface Class Codes: C6130B (Graphics techniques); C6180 (User interfaces); C6160Z (Other DBMS)
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6/5/8 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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0533134 H.W. WILSON RECORD NUMBER: BAST84025947

Modeling generating unit size and economics of scale in capacity expansion with an efficient, real number representation of capacity additions
Caramanis, Michael; Stremel, John P; Charny, Leonid
IEEE Transactions on Power Apparatus and Systems v. 103 (Mar. '84) p.

506-13

DOCUMENT TYPE: Feature Article ISSN: 0018-9510 LANGUAGE: English RECORD STATUS: New record

DESCRIPTORS: Electric **power** plants--Costs; Electric utilities--Development work; Programming (Mathematics;

6/5/9 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00430264 89-02051

How an Electric Utility Cost Model Can Be Validated

Stremel, John ; Stillinger, William

Public Utilities Fortnightly v122n12 PP: 17-20 Dec 8, 1988 CODEN: PUFNAV

ISSN: 0033-3808 JRNL CODE: PUF

DOC TYPE: Journal article LANGUAGE: English LENGTH: 4 Pages

SPECIAL FEATURE: Charts

ABSTRACT: A simple but elegant series of objective tests is presented to set necessary conditions for the acceptance of forecast results from an electric utility production cost model. Referred to as the "acid test" approach, the basic premise is that a model must be able to simulate a simple situation accurately before confidence can be established that a more complex utility system can be represented. The test's **power** comes from the ability to know and compare the "correct" or true answer against the results of any other model. A fictitious system of 6 thermal generating units and one pumped hydro unit is used, and the model is put through a series of tests that examine key constraints. The acid test approach was developed as part of the acceptance procedure for a production cost model sponsored and codeveloped by Northeast Utilities Service Co. COMPANY NAMES:

Northeast Utilities (DUNS:00-695-3418 TICKER:NU)

DESCRIPTORS: Electric utilities; Production costs; Models; Validation; Methods; Accuracy; Computer based modeling; Marginal costs CLASSIFICATION CODES: 8340 (CN=Electric, water & gas utilities); 3100 (CN=Capital & debt management)